

## **NEWSLETTER**

August 2024

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## **NEWS & UPDATE**

### Continued Collaboration

AiSP would like to thank Clixer, Huawei and Singapore University of Technology and Design for their continued support in developing the cybersecurity landscape:









## News & Updates

#### **SCCCI SAF Combined Rededication Ceremony on 1 July**

AiSP EXCO Member Mr Dennis Chan represented AiSP in the SCCCI SAF Combined Rededication Ceremony 2024 (CBD, South Zone) on 1 July 2024 during the SAF Day to reaffirm commitment and support to our National Servicemen for their service to Singapore. Thank you Minister for National Development Mr Desmond Lee for presenting the Certificate of Appreciation to AiSP in AiSP commitment and support to our National Servicemen for their service to Singapore and thank you SCCCI for organising and inviting AiSP to the event.



Photo Credit: SCCCI



#### DFL Partners' Appreciation Event on 5 July

AiSP is one of the 12 Digital for Life (DfL) Champions to be awarded as a DFL Champion at the DfL Partners' Appreciation Event on 5 July 2024 for its efforts in championing Singapore's Digital for Life (DfL) movement, which aims to help Singaporeans embrace digital as a lifelong pursuit and enrich their lives through digital technology. AiSP President Mr Tony Low represented AiSP and received the Digital for Life (DfL) Champion from Digital for Life (DfL) Patron - President Tharman Shanmugaratnam on 5 July 2024. AiSP had reached out to more than 24,000 general public in the scam awareness and stay safe online. This award will not be possible without the strong support of our Corporate Partners, AiSP EXCO Members, AiSP Members and Student Volunteers who had been supporting AiSP in the DFL movement through the roadshows and community events. AiSP will continue to do more and outreach to the different community groups to raise awareness on the topic of cyber wellness and cybersecurity to create a safe cyberspace supported by a strong and vibrant cybersecurity ecosystem.





#### Skills Pathway for Cybersecurity Employers Pledging Ceremony on 9 July

We are happy to share that AiSP's Qualified Information Security Associate (QISA) certification has been recognized under the SCS Skills Pathway for Cybersecurity Employers. This is a huge milestone for QISA as the certification will be recognized in the industry for job employment. This industry-led initiative developed in collaboration with the Singapore Computer Society (SCS), Cyber Security Agency of Singapore (CSA), SkillsFuture SG (SSG), AiSP (Association of Information Security Professionals), and 13 founding employers: Cyber Security Agency of Singapore (CSA), The Digital and Intelligence Service (DIS), DSTA, Ensign InfoSecurity, GIC, GovTech Singapore, HTX (Home Team Science & Technology Agency), NCS Group, Singapore Airlines, Singtel, ST Engineering, Synapxe and Temasek is designed to bridge the gap between demand and supply in the cybersecurity sector by offering industry-relevant training and industry-recognised certifications. Minister for Education, Mr Chan Chun Sing was present to launch the ceremony as well.

For more information on QISA, visit our website here <a href="https://aisp.sg/qisp.html">https://aisp.sg/qisp.html</a> on how to register for the exam and for any enquiries, please email <a href="mailto:academy@aisp.sg">academy@aisp.sg</a>





## Member Acknowledgment

#### Interview with AiSP EXCO Member Mr Daniel Wang



## 1. What is your vision for your contribution in AiSP? What do you think is the biggest issue in the Cybersecurity Industry?

Daniel: My vision is aligned with the special interest group, Legal Investigative Technology Experts (LITE). We are formed to provide education and collaboration within AiSP for the prevention and investigation of high tech crimes. Cybersecurity itself is a wide and diverse area where one can never be exposed to the entire spectrum of cybersecurity work. With this wide spectrum of work, it creates a

2. As the EXCO member, there are times where you will be representing AiSP in events and engagements. How do you plan to uphold AiSP's reputation and values while effectively communicating its mission and objectives to external stakeholders.

demand for work which we unfortunately do not have enough talents to supply or fill.

Daniel: Understanding AiSP's mission and values would be the key, by speaking with stakeholders and/or fellow board members within AiSP, immersing myself in the organisation's culture and history. Knowing one of the AiSP's pillars - to bolster further development, increase and spread information security knowledge, we need to continue to build strong relationships with external stakeholders such as government bodies, law enforcement, academic, private industries, and legal communities by actively engaging them.

## 3. Lastly, what would you like to share and contribute your expertise with our AiSP member and the wider community?

Daniel: I am keen to mentor individuals within AiSP who are early in their careers or looking to advance in the digital forensics or e-Discovery space. Providing guidance on career development, skill enhancement, and navigating challenges in the industry can be valuable contributions. As part of the special interest group (LITE) that I'm in, we can offer workshops, seminars on emerging technologies in digital forensics and e-Discovery space. Lastly, I advocate for diversity and inclusion in the digital forensics and e-Discovery fields. I can support initiatives that promote underrepresented groups, encourage diverse perspectives, and create inclusive environments within AiSP and the wider community. Overall, my aim is to bring valuable expertise, foster knowledge sharing, and contribute positively to AiSP and its community.

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## Student Volunteer Recognition Programme (SVRP)

#### AiSP Youth Symposium on 7 July

AiSP Youth Symposium was held on 7 July at AiSP office with more than 120 youths attended the event. AiSP Patron, Senior Minister of State, Ministry of Communication and Information & Ministry of National Development Mr Tan Kiat How graced the event with his presence and had an interesting exchange with our panelists and youths on "Guardians of the Digital Realm: Empowering Tomorrow's Cyber Defenders". A big shoutout to our sponsors, EC-Council, Ministry of Defence of Singapore, YesWeHack, supporting partners and speakers for their invaluable support and participation in the Youth Symposium! Thank you, speakers, for your insights which empowered and motivated our future pillars of the society in the area of cybersecurity.





#### ITE College West on a Learning journey to Trend Micro on 17 July

On 17 July, AiSP brought 35 students from our Academic Partner, ITE College West on a Learning journey to our Corporate Partner, Trend Micro office. We hoped the students have gained insights from the visit.

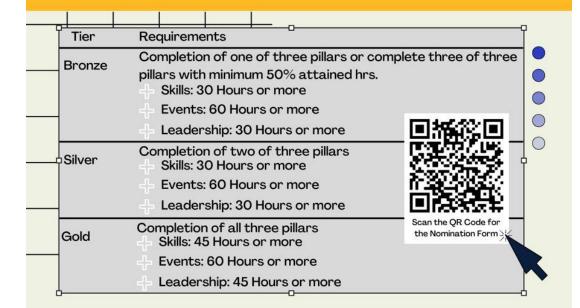






Nomination Period: 1 Aug 2023 to 31 Jul 2024

## CALL FOR NOMINATION: STUDENT VOLUNTEER RECOGNITION PROGRAMME



## The SVRP comprises three broad pillars where IHL students can volunteer:

- + Skills-based: E.g. Conduct cybersecurity workshops or develop related software
- + Events-based: E.g. Provide support at technology or cyber-related events
- + Leadership: E.g. Mentoring younger students and managing teams or projects

Visit www.aisp.sg/svrp.html for more details





Nomination Period: 1 Aug 2023 to 31 Jul 2024

# CALL FOR NOMINATION! STUDENT VOLUNTEER RECOGNITION PROGRAMME

The SVRP for the secondary school and pre-university students is on merit basis and evaluation would be slightly different as cyber security is not offered as a subject nor co-curricular activities (CCA) in most schools in Singapore at the moment. The students would be given Certificate of Merit when they achieved the following (see A, B, C or D):

#### **Example A**

- Leadership: 10 Hours
- Skill: 10 Hours
  - Outreach: 10 Hours

#### Example B

- Leadership: 0 Hour
- Skill: 18 Hours
- Outreach: 18 Hours

#### Example C

- Leadership: 0 Hour
- Skill: 36 Hours
- Outreach: 0 Hour

#### **Example D**

- Leadership: 0 Hour
- Skill: O Hour
- Outreach: 42 Hours

## Scan the QR Code for the Nomination Form

The track for Secondary School and Pre-University students comprises three broad pillars where they can volunteer:

- Leadership refers to how the volunteer leads a team to complete the voluntary activity.
- 4 Skill refers to how the volunteer applies his/her cybersecurity knowledge to others
- Outreach refers to how the volunteer is involved in outreach efforts (social media, events) to increase cybersecurity awareness for the public.

Visit www.aisp.sg/svrp.html for more details

Please submit your nomination by 7 August.



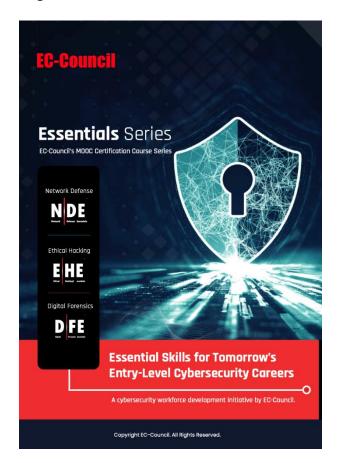
#### **Elevating Cybersecurity Education Through Unprecedented Collaborations**

In a pioneering initiative, EC-Council and Wissen have forged a collaboration with AiSP. This collaboration includes a sponsorship of 500 EC-Council Cyber Essentials certification vouchers. These vouchers aim to empower Polytechnic and Institute of Technical Education (ITE) students pursuing cybersecurity programs, enabling them to attain their inaugural industry certificate and commence their journey with EC-Council Essential certificates (NDE, EHE, DFE), thereby initiating their cybersecurity credentialing process.

Visit (<a href="https://wissen-intl.com/essential500/">https://wissen-intl.com/essential500/</a>) and register to start your cybersecurity credentialing journey! Terms & Conditions apply.

#### About the EC-Council Cyber Essentials Certification

EC-Council's Essentials Series is the first MOOC certification course series covering essential skills in network defense, ethical hacking, and digital forensics. The Network Defense Essentials (N | DE), Ethical Hacking Essentials (E | HE), and Digital Forensics Essentials (D | FE) are foundational programs that help students and early career professionals choose their area of competency or select a specific interest in cybersecurity. The Essentials Series was designed to give students the foundation on which to build and develop the essential skills for tomorrow's careers in cybersecurity. These programs educate learners in a range of techniques across industry verticals, such as securing networks, mitigating cyber risks, conducting forensic investigations, and more.





## AiSP Cyber Wellness Programme

Organised by:



Supported by:



In Support of:



The AiSP Cyber Wellness Programme aims to educate citizens, especially reaching out to the youths and elderly on the importance of Cybersecurity and learn how to stay safe online. There has been an increase in cyber threats, online scams and COVID-19 related phishing activities. With reduced Face-to-Face engagements, the elderly and those with special needs have become more vulnerable to cyber threats. We will reach out to different community groups to raise awareness on the topic of cyber wellness and cybersecurity and participants can pick up cyber knowledge through interactive learning. It is supported by the Digital for Life Fund, an initiative by the Infocomm Media Development Authority (IMDA), that supports digital inclusion projects and activities to help all Singaporeans embrace digital, to enrich lives."



Join us in our monthly knowledge series to learn and pick up tips on Cybersecurity. Visit our website (<a href="https://www.aisp.sg/aispcyberwellness">https://www.aisp.sg/aispcyberwellness</a>) to get updates on the latest Cyber tips, Cyber news, activities, quiz and game happenings related to Cyber. Scan the QR Code to find out more.



Scan here for some tips on how to stay safe online and protect yourself from scams



Hear what some of our Professionals have to share. Scan here on Cyber - Use, Identity, Relationship, Citizenship & Ethics.



Have the knowledge and think you are safe?
Challenge yourself and participate in our monthly quiz and stand to win attractive prizes. Scan now to take part.



Scan here if you are looking for activities / events to participate in for knowledge exchange / networking / get to know more people / stay protected & helping others.



Want to know more about Information Security? Scan here for more video content.



To find out more about the Digital for Life movement and how you can contribute, scan here.

Contact AiSP Secretariat at secretariat@aisp.sq to find out more on how you can be involved or if you have any queries.

Click here to find out more!



## **Special Interest Groups**

AiSP has set up six <u>Special Interest Groups</u> (SIGs) for active AiSP members to advance their knowledge and contribute to the ecosystem are:

- Artificial Intelligence
- CISO
- Cloud Security
- Data and Privacy
- DevSecOps
- Legal Investigative Technology Experts (LITE)

We would like to invite AiSP members to join our <u>Special Interest Groups</u> as there are exciting activities and projects where our members can deepen their knowledge together. If you are keen to be part of a SIG, please contact <u>secretariat@aisp.sg</u>















#### Al Security Summit on 3 July

More than 150 attendees joined the AiSP Inaugural AI Security Summit with the theme "AI for Cybersecurity and Cybersecurity for AI" on 3 July. A huge thank you to all our speakers, sponsors (Fortinet, Cisco, SailPoint & softScheck), supporting partners and attendees who made this event an incredible success! Thank you Senior Minister of State, Ministry of Communication and Information & Ministry of Health, Dr Janil Puthucheary for gracing the event and launching the AI SIG.





#### Data & Privacy Workshop on 24 July

The first workshop organized by AiSP Data & Privacy SIG was held on 24 July with more than 70 attendees on the topic of Data Protection in an Al-powered World. Special mention to OpenText for being the exclusive sponsor for the event, Cyber Security Agency of Singapore (CSA), IMDA and Personal Data Protection Commission (PDPC) for supporting the event! Thank you to our speakers, Mr Eugene Teh, Mr Lanx Goh, Mr Dominic Ng and Ms Tan Wen Rui for sharing valuable insights with our attendees and AiSP EXCO Member, Data & Privacy SIG Lead, Mr Wong Onn Chee for moderating the panel discussion.





#### AI SIG Meetup 2024 on 27 August



#### **AiSP AI SIG Meetup 2024**



AiSP has set up a Special Interest Group Artificial Intelligence. Our Vision is to provide a platform for AiSP members who are curious on Al/ML topics to learn from and exchange ideas with other members and experts on this emerging technology. Provide clarity and Awareness on Al/ML impacts/applications to Information Security Profession and Professionals. To Engage relevant stakeholders to raise security requirements, responsible use and governance on Al/ML systems/applications.

#### Securing Al

Speaker: Paul Hidalgo, Head of Cloud Business (ASEAN), Trend Micro

As Al becomes an integral part of our digital landscape, ensuring its secure use is paramount.

#### What you will learn:

- I. Explore essential cybersecurity guardrails for safeguarding AI technologies.
- ii. Discover insights on mitigating risks, implementing robust security measures, and fostering responsible AI innovation.
- iii. Navigate the challenges of AI deployment while maintaining a strong cybersecurity posture.

**Exploring Practical Use of Artificial Neural Networks in Cybersecurity** 



Speaker: Jeremy Soh, Chief Engineer & Co-founder (SECTA5)

This introductory session is designed for security professionals who want to understand how artificial neural networks (ANN) can enhance cybersecurity tasks. The presentation covers the basics of ANN and showcases how the technology can automate and improve cybersecurity processes. One example, such as predicting CVSS vectors through text in a typical Vulnerability Management workflow for the triage process, will be explored. The session will include code demonstrations to illustrate the outcomes of supervised learning, along with code snippets as examples. This brief session aims to spark interest and provide practical examples to help security professionals begin leveraging ANN for more efficient and effective cybersecurity practices.

#### Jailbreaking Attacks against (Multimodal) Large Language Models

Speaker: Tianyu Pang, Senior Research Scientist, Sea Al Lab

In this talk, I will present our recent works on jailbreaking LLMs and multimodal LLMs (MLLMs). This involves a quick overview of adversarial attacks and shows how LLMs/MLLMs facilitate much more flexible (also much more high-risk) attacking strategies. For example, we could jailbreak one million MLLM agents exponentially fast in, e.g., 5 minutes.

Date: 27 August 2024, Tuesday Time: 6PM – 8.30PM (SGT)

Venue: Trend Micro Office @ Suntec Tower 4, 6 Temasek Boulevard #16-01/05, Singapore

038986

Registration: https://www.eventbrite.sg/e/aisp-ai-sig-meetup-tickets-

954502000177?aff=oddtdtcreator



#### DevSecOps SIG Meetup on 3 September













Calling all practitioners and students of DevSecOps. We are a newly minted Special Interest Group in AiSP - DevSecOps. We will be organizing a Meet Up session in Sep to build a community of professionals and students so as to share knowledge and meet others who has expertise in this area. In future, we will also provide a platform for vendors to share their solutions to help in this area to improve the practices. Come join us for some fun and food. Pizzas (Halal & Vegetarian)/Drinks/Coffee & Tea will be available but bring your Name Cards, LinkedIn QR codes to meet up and network.

#### Agenda:

6pm - 6.45pm Registration & dinner

6.45pm - 7.15pm Welcome address & Introduction of DevSecOps SIG by AiSP

7.15pm – 8.30pm - Audience Participation:

- \*Tell us about yourself! (1 min each)
- \* Knowledge-base (Top 3)
- \* What you would like to see for future Meet Ups?
- Prize Givina
- Lucky Draw

8.30pm – End of event

PS - If you would like to sponsor some prizes for the lucky draw, please let us know: stanley.eu@aisp.sg

Date: 3 September 2024, Tuesday

Time: 6PM - 8.30PM

Venue: JustCo @ Marina Square

Registration: <a href="https://www.eventbrite.sg/e/952371327277?aff=oddtdtcreator">https://www.eventbrite.sg/e/952371327277?aff=oddtdtcreator</a>

\*AiSP members who would like to bring a non member for the event can reach out to

secretariat@aisp.sg for a 50% discount code.



#### **Cloud Security Summit on 24 September**



The AiSP Cloud Security Summit 2024 is an important event of the year, organised by the AiSP Cloud Security Special Interest Group. The programme schedule comprises of key notes, solutions, panel discussion and workshop. The theme for the summit is Navigating Cloud Security in the near-future Era. This event is organized for anyone with an interest or wish to find out more or understand more on the landscape of Cloud Security.

Embark on a journey into the future of cloud security at the AISP Cloud Security Summit. This meticulously organized event serves as a nexus for cybersecurity professionals, cloud experts, and industry thought leaders to converge and navigate the complexities of cloud security in the near-future era.

Throughout this immersive one-day event, attendees will immerse themselves in the latest cloud security trends, threats, and innovations, all tailored to address the unique challenges and opportunities within our region.

#### Join us as we explore:

- The Evolving Threat Landscape: Uncover the dynamic shifts within the cloud security threat landscape and equip yourself with strategies to stay ahead of emerging risks.
- Compliance and Regulatory Updates: Stay informed about the ever-changing landscape of compliance standards and regulatory requirements, ensuring your organization remains resilient in the face of evolving mandates.

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- Best Practices for Cloud Migration and Security: Navigate the intricacies of cloud migration while safeguarding the integrity and security of your digital assets with industry-leading best practices.
  - Emerging Technologies: Discover the transformative potential of cutting-edge technologies such as Artificial Intelligence (AI), Machine Learning (ML), and DevSecOps in fortifying cloud security frameworks and enhancing threat detection capabilities.
  - Real-World Case Studies and Success Stories: Draw inspiration from real-world case studies and success stories, offering invaluable insights and actionable strategies derived from organizations that have successfully traversed the challenges of cloud security implementation.

Prepare to expand your network, glean wisdom from seasoned experts, and arm yourself with the insights needed to fortify your organization's cloud journey.

Date: 24 September 2024 Time: 12.30PM – 5PM

Venue: Marina Bay Sands Convention Centre

Guest of Honour: AiSP Patron - Senior Minister of State, Ministry of Digital Development and Information & Ministry of National Development Mr Tan Kiat How

For more details, you can visit https://aisp.sg/Cloud\_Security\_Summit\_2024.html

\*AiSP AVIP, Ordinary and Associate members can email to <a href="mailto:rsvp@aisp.sg">rsvp@aisp.sg</a> for complimentary tickets. Please noted that it is based on first come first served basis.

By registering for this event, you hereby agreed to be contacted by AiSP and your details to be shared with our partners.



## The Cybersecurity Awards



Thank you for your support! The Cybersecurity Awards 2024 nominations has ended on 31 May.

**Professionals** 

- 1. Hall of Fame
- 2. Leader
- 3. Professional

Students

4. Students

**Enterprises** 

- 5. MNC (Vendor)
- 6. MNC (End User)
- 7. SME (Vendor)
- 8. SME (End User)

Please email us (secretariat@aisp.sg) if your organisation would like to be our sponsors for The Cybersecurity Awards 2024! Limited sponsorship packages are available.





## Regionalisation

#### **ASEAN Bug Bounty on 20 July**

AiSP held our ASEAN Bug Bounty - Beta Edition on 20 July in collaboration with Cyber Security Agency of Singapore (CSA) and Singapore Institute of Technology. Thank you to our Corporate Partners CyberSafe and Image Engine, Ngen Technologies Pte Ltd and PlatON for your strong support.

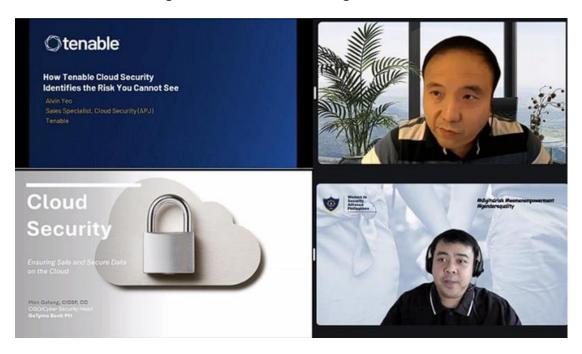






#### SEACC Webinar - Cloud Security on 31 July

As part of the SEACC webinars leading up to SEACC Forum, AiSP held a webinar on Cloud Security on 31 July. It was an insightful sharing from our speakers who shared on best practices for cloud security and the potential risks. Thank you Mr Alvin Yeo from our CPP Tenable and Mr Mon Galang from WISAP for sharing at the webinar.





## Digital For Life

#### Skills for Good Festival on 26-27 July

AiSP and our Corporate Partner Cisco & Academic Partner Nanyang Polytechnic (NYP) School of Information Technology (SIT) participated in Skills for Good Festival at Plaza Singapura from 26 – 27 July. AiSP Secretary & PME Exco Lead Ms Soffenny Yap shared live on stage on her experience within this male dominated industry and how she balanced her time as a working mother in the cybersecurity industry. Thank you Mayor Denise Phua for visiting our booth and taking photo with the NYP student volunteers.





## Ladies In Cyber

#### Flex Appeal on 22 July

AiSP EXCO Member and Ladies in Cyber Lead, Ms Judy Saw attended the SG Her Empowerment (SHE) event "Flex Appeal" on 22 July with the AiSP Secretariat team. During the event, the attendees explored how flexi work arrangement (FWAs) can profoundly impact and benefit women, men, and caregivers by fostering a more inclusive and supportive work environment. From reducing burnout to enhancing productivity, the discussions highlighted the myriad ways FWAs can reshape our work-life balance for the better. Thank you SHE for inviting us!





#### Ladies in Cyber Symposium 2024 on 30 August



As part of AiSP Ladies in Cyber Charter 6 years anniversary in 2024, AISP will be organising the third AiSP Ladies in Cyber Symposium on 30 Aug 24 as part of the International Cyber Women Day Celebrations held on 1 Sep every year. The symposium will be held on 30 Aug 24 (Fri) evening at JustCo Marina Square for female Youths and PMETs to know more about the importance of Cybersecurity and how women can play a role in it. We are expecting 150 Youths and professionals for the symposium.

We are pleased to have Minister of State for Ministry of Digital Development and Information & Ministry of Health – Ms Rahayu Mahzam to be our distinguished Guest of Honour for the event and to have a dialogue session with the attendees on Cybersecurity.

AiSP will also be launching the Ladies in Cyber Online Cyber Queens: Bug Bounty Challenge during the Symposium too.

#### The details for the event are as follow:

Date: 30 August 2024 Time: 6PM – 8.30PM

Venue: JustCo @ Marina Square

Guest of Honour: Minister of State, Ministry of Digital Development and Information &

Ministry of Health, Ms Rahayu Mahzam

Attire: Smart Casual



Why should you join us for the Symposium? Whether you are a seasoned professional, a student, or simply interested in learning more about the intersection cybersecurity, this symposium is a must-attend event for anyone looking to deepen their understanding of these critical fields and to connect with others who are committed to driving positive change through technology with the below objectives.

- 1) Get to Network with Female Professionals and hear their journey and experience in Cybersecurity
- 2) Visit our booths to embark on a journey in Cybersecurity
- 3) Dialogue Session with our Guest of Honour & esteem female leaders in the cybersecurity field
- 4) Participate in the Ladies in Cyber Online Cyber Queens: Bug Bounty Challenge and stand to win attractive prizes.
- 5) Get special promotion and discount on Cybersecurity Course offered by our training partners.

All attendees will get our limited-edition ladies in cyber bear after completing a survey on the day itself as shown below.



Please sign up via <a href="https://tinyurl.com/lic30Aug24">https://tinyurl.com/lic30Aug24</a> by 02 Aug 24. Registration is based on first come first served basics limit to 150pax. Please feel free to invite all your female friends for the event.



## Corporate Partner Event

#### Cisco Security: Securing the AI Revolution Event on 4 July

Together with our Corporate Partner, Cisco, AiSP held an event on Securing Al Revolution on 19 July. Thank you Mr Perry Young, Ms Claudean Zheng, Mr Gerry Chng, Mr Koo Juan Huat and Mr Timothy Snow for sharing insights.





#### CyberSafe 7th Anniversary on 5 July

Congratulations to our Corporate Partner, CyberSafe for your 7th Anniversary. Thank you Mr Dave Gurbani, Ms Azizah Omar, Ms Regine Tan and Ms Vanessa Shana Seah for your strong support in AiSP programme and inviting us for your celebration. We look forward in working closely with you to a safe cyberspace supported by a strong and vibrant cybersecurity ecosystem.





## **Upcoming Activities/Events**

**Ongoing Activities** 

Date	Event	Organiser
Jan – Dec	Call for Female Mentors (Ladies in Cyber)	AiSP
Jan – Dec	Call for Volunteers (AiSP Members, Student Volunteers)	AiSP

**Upcoming Events** 

Date Date	Event	Organiser
1 Aug	NACSA Cyber Security Summit 2024	Partner
1 Aug	ISC2 Secure Asia Pacific 2024	Partner
6-8 Aug	CyberDSA in KL	Partner
13 Aug	Lion Befriender Talk	Partner
19-23 Aug	CCISO Masterclass – Cyber Leadership Training	Partner
20-21 Aug	Operational Technology Cybersecurity Expert Panel Forum 2024	Partner
27 Aug	AI SIG Meetup	AiSP
27 Aug	CISO Brisbane	Partner
29 Aug	AiSP x SUTD x NTUC TTAB MOU Signing & PME Sharing	AiSP & Partner
30 Aug	Ladies in Cyber Symposium	AiSP
2 Sep	Grab Digital Adoption and Anti Scam Awareness	Partner
3 Sep	DevSecOps	AiSP
4-5 Sep	OT-ISAC Summit 2024	Partner
5 Sep	LIC Webinar with SEA CC	AiSP
14 Sep	Anti Mooncake Scam cum Learning Journey to Huawei	AiSP & Partner
17-20 Sep	Learning Journey to Brunei	AiSP
19 Sep	SEACC Forum	AiSP
24 Sep	Cloud Security Summit	AiSP
26 Sep	CISO Dialogue with CE/GovTech & Gathering	AiSP
26 Sep	NTUC Labour Research Conference 2024	Partner
28 Sep	DFL at Jurong Spring CC	Partner

<sup>\*\*</sup>Please note events may be postponed or cancelled due to unforeseen circumstances



## CONTRIBUTED CONTENTS

### Article from CISO SIG

Shao Fei is the Group Chief Information Security Officer at SMRT Corporation, Singapore's leading multi-modal public transport operator. Over the last 24 years, he also served in various roles at Amazon Web Services and the Singapore Public Service.

As a Fellow of Singapore Computer Society (SCS), Shao Fei serves as President of SCS's Cyber Security (CS) Chapter. He is also a member of the Cybersecurity Committee at the International Association of Public Transport (UITP)

Shao Fei was inducted as Professional of the Year at the prestigious Singapore Computer Society IT Leader Awards 2020, and as winner of The Cybersecurity Awards 2021 (Leader Category). He was also nominated to The Cybersecurity Observatory's Hall of Fame in January 2020, and inducted as a AISP Validated Information Security Professional (AVIP) in March 2021. In 2022, Shao Fei was recognised as one of the top 30 senior cybersecurity leaders in Southeast Asia and Hong Kong at the CSO30 ASEAN 2022 Awards.

#### Introducing CISO with a deep interest in cybersecurity

I am presently the Group Chief Information Security Officer at SMRT Corporation. My cybersecurity career has spanned over 25 years, and I have worked in both public and private sectors.

#### What brought you to the Cybersecurity industry?

I have been coding since I was in my early teens, mostly trying to beat computer games. Later on, I started dabbling in PC hardware and software modifications to improve performance on a shoe-string budget (mostly out of my pocket money). Little did I know then that these hobbies would kindle the passion that brought me to the cybersecurity industry.

## What were your defining moments in this industry, and factors or guidance that helped you achieve them?

There are two defining moments in my career. One was when DSO National Laboratories recruited me as a research engineer, which could not be closer to a dream job at that stage of my life. I was literally getting paid to do my hobby. The second was when I was conferred the Leader award at The Cybersecurity Awards 2021, organised by AiSP and supported by CSA and the Singapore Cyber Security Inter Association. I would not have been able to achieve either of these milestones by myself alone. There were many people and role models, who trusted in me and who provided me with guidance and encouragement at every stage in my career.

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#### What is it that you love most about your role?

Bringing about positive change and making a difference.

## What are some of the trends you have seen in the market lately, and what do you think will emerge in the future?

Everybody is talking about AI these days. So yes, AI is certainly a trend in cybersecurity. What might emerge in the future is anyone's guess. That said, I think that cybersecurity threat detection and response capabilities could become a feature of embedded systems-on-chip (SoC) architectures, when chip-makers start to look into new markets for growth. They make develop custom-developed application-specific integrated circuits (ASICs) for accelerating new workloads, particularly in cybersecurity.

#### What do you think is the role of CISO?

My view of a CISO's role is that he or she is accountable for the digital trust of the company. Correspondingly, a CISO is responsible for cybersecurity and critical risk management strategies that align with business initiatives, to ensure digital trust. The aspect of digital trust is more important that ever today because businesses must foster trust to ensure secure Al adoption.

#### What can we do to encourage more people to join the cybersecurity sector?

Today, there are numerous initiatives across various stakeholders in the cybersecurity ecosystem aiming to do this. We may want to pause and ask ourselves, what is working and what is not. At the end of the day, building more awareness of the industry does not mean that more people will eventually join the cybersecurity sector. And we need to be more self-critical to get there.

#### What do you want to achieve or contribute to the Cybersecurity Ecosystem?

I hope to contribute to the longer-term direction of the Singapore cybersecurity ecosystem. As such, I am honoured to have been invited to join CSA's Professionalisation Advisory Group, which was formed in 2023 to study how Singapore can raise standards of the cybersecurity ecosystem without discouraging the growth of the profession.

#### Any advice for the Cybersecurity Professionals?

- Never, ever compromise integrity and ethics.
- Be courageous even in the face of failure.
- Do not stop learning.



## Article from AI SIG

#### Singapore's AI Testing Toolkit: An Inside Look at Project Moonshot

In a bold move to establish itself as a global leader in responsible AI development, Singapore has unveiled Project Moonshot, a groundbreaking initiative aimed at creating a comprehensive AI testing toolkit. The project, spearheaded by the Infocomm Media Development Authority (IMDA) and the AI Verify Foundation (AIVF), seeks to address critical concerns surrounding the safety, fairness, and transparency of large language models (LLMs).

Project Moonshot brings together experts from diverse fields to create a suite of tools designed to evaluate and improve AI systems. The toolkit encompasses various components, including red-teaming techniques, explainability assessments, and ethical considerations. By focusing on these key areas, Singapore AI is positioning itself at the forefront of responsible AI development. This article will explore the origins of Project Moonshot, delve into its main components, examine its global impact, and discuss potential partnerships that could shape the future of AI governance.

#### The Genesis of Project Moonshot

#### Singapore's AI Strategy

Singapore's journey towards becoming a global AI leader began with the introduction of its National AI Strategy 2.0. This comprehensive plan aims to achieve excellence and empowerment in AI for the public good, benefiting both Singapore and the world at large. A key enabler of this strategy is the creation of a trusted environment for AI, which has become the foundation for Project Moonshot's development.

The Infocomm Media Development Authority (IMDA) recognized the need to establish guardrails to manage AI risks while fostering innovation. This approach emphasizes the importance of adopting an agile, test-and-iterate methodology to address key risks in model development and use By extending the work of the AI Verify Foundation into the realm of Generative AI, IMDA has taken a proactive stance in tackling the challenges posed by Large Language Models (LLMs).

#### **Need for Transparent and Trustworthy Al**

The rapid advancement of AI technologies, particularly LLMs, has brought to light significant concerns regarding their potential negative impacts. Without proper safeguards, these models can reinforce biases and generate harmful content, leading to unintended consequences. This realization has underscored the critical need for transparent and trustworthy AI systems.

To address these challenges, Project Moonshot was conceived as one of the world's first tools to combine benchmarking, red-teaming, and testing baselines. This innovative

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approach allows developers to focus on what's most important to them while ensuring the safety and quality of AI models and applications.

The project provides intuitive results that unveil the quality and safety of a model or application in an easily understood manner, even for non-technical users. It employs a 5-tier scoring system, where each "exam paper" completed by the application is scored on a five-tier scale. The grade cut-offs can be determined by the author of each "exam paper," allowing for flexibility and customization.

To ensure the tool's usefulness and alignment with industry needs, IMDA and the Al Verify Foundation (AIVF) have collaborated with like-minded partners such as DataRobot, IBM, Singtel, Temasek, and Resaro. This collaborative effort has been crucial in providing design inputs and feedback for Project Moonshot, making it a truly industry-driven initiative.

The genesis of Project Moonshot represents a significant step towards establishing global testing standards for AI. By bringing together leading AI testing organizations like AI Verify Foundation and MLCommons, the project aims to build a common testing benchmark for large language models. This collaboration provides developers with clarity on what and how they need to test their applications to ensure they meet certain thresholds of safety and quality.

#### Key Components of the AI Testing Toolkit

Project Moonshot, developed by the AI Verify Foundation, is one of the first tools to combine benchmarking and red-teaming capabilities for evaluating Large Language Models (LLMs) and LLM applications. This innovative toolkit addresses critical aspects of AI testing, including explainability, robustness, fairness, and safety.

#### **Explainability and Robustness Testing**

The toolkit offers a range of benchmarks to measure an LLM application's performance in capability, quality, and trust & safety. These benchmarks serve as "exam questions" to test the model across various competencies, such as language and context understanding. To streamline the testing process, Moonshot helps identify and run only the most relevant tests, optimizing the evaluation procedure.

For unique use cases, users can tailor their evaluation process with custom datasets by creating their own "recipes" in Moonshot. This flexibility allows for a more comprehensive assessment of AI systems across different scenarios.

#### Fairness and Safety Assessments

A crucial component of Project Moonshot is its red-teaming capabilities. Red-teaming involves adversarial prompting of LLM applications to induce behavior incongruent with their design. This process is essential for identifying vulnerabilities in AI systems. Moonshot simplifies red-teaming by providing an easy-to-use interface that allows for the simultaneous probing of multiple LLM applications.



The toolkit equips users with red-teaming tools such as prompt templates, context strategies, and attack modules. These features enable thorough testing of AI models for potential biases, safety issues, and unintended behaviors.

#### **User-Friendly Interface and Reporting**

Project Moonshot aims to provide intuitive results of the quality and safety of a model or application in an easily understood manner, even for non-technical users. The toolkit employs a web-based user interface that allows users to produce HTML reports visualizing test results in easy-to-read charts. For more in-depth analysis, users can access raw test results through JSON files that log full prompt-response pairs.

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#### **Global Implications and Partnerships**

#### **Collaboration with MLCommons**

Project Moonshot represents a significant step towards establishing global testing standards for AI. Two leading AI testing organizations, AI Verify Foundation (AIVF) and MLCommons, have joined forces to build a common safety benchmark suite for large language models. This collaboration aims to provide developers with clarity on what and how they need to test their applications to ensure they meet certain thresholds of safety and quality.

On May 29 2024, AIVF and MLCommons signed a memorandum of intent (MOI) to collaborate on building this common safety benchmark suite. Peter Mattson, MLCommons President and co-chair of the AI Safety working group, expressed pride in this partnership, stating that it would positively impact AI safety by providing a globally accepted approach to safety testing for generative AI.

MLCommons, supported by over 125 founding members and affiliates, including startups, leading companies, academics, and non-profits from around the globe, plays a crucial role in democratizing Al. The organization focuses on:

- 1. Developing open industry-standard benchmarks to measure quality and performance
- 2. Building open, large-scale, and diverse datasets to improve AI models
- 3. Continually measuring and improving the accuracy, safety, speed, and efficiency of AI technologies

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This collaboration between AIVF and MLCommons is particularly significant as MLCommons is recognized by the US National Institute of Science and Technology (NIST) under its AI Safety Consortium.

#### Potential Impact on International AI Standards

The partnership between AIVF and MLCommons has the potential to shape international AI standards significantly. By combining their expertise and resources, these organizations are working towards creating a globally accepted approach to AI safety testing. This effort could lead to more consistent and reliable evaluation methods for AI systems worldwide.

In addition to the AIVF-MLCommons collaboration, other international initiatives are underway to address AI governance and safety:

- 4. Singapore's AI Safety Institute (SG AISI): Housed within NTU's Digital Trust Center, SG AISI will collaborate internationally with other AI Safety Institutes to advance the sciences of AI safety for national AI governance and international frameworks.
- 5. Digital Forum of Small States (DFOSS) Al Governance Playbook: Singapore and Rwanda are collaborating on developing an Al Governance playbook for small states through open consultations at DFOSS.

These initiatives demonstrate the growing global recognition of the need for standardized AI safety measures and governance frameworks. As Project Moonshot continues to evolve and gain international support, it has the potential to become a cornerstone in the development of global AI testing standards, fostering trust and accountability in AI systems worldwide.

#### Conclusion

Project Moonshot represents a significant step forward in the realm of AI governance and safety. By bringing together experts from various fields and collaborating with industry partners, Singapore has created a toolkit that has a substantial impact on how we test and evaluate AI systems. This initiative not only addresses critical concerns about AI safety and fairness but also sets the stage for global partnerships to develop common testing standards.

The implications of Project Moonshot extend far beyond Singapore's borders. As Al continues to shape our world, the need for reliable, transparent, and ethical Al systems becomes increasingly crucial. With its comprehensive approach to Al testing, Project Moonshot offers a blueprint for other nations to follow, potentially leading to more consistent and trustworthy Al development worldwide. In the end, this initiative showcases Singapore's commitment to responsible Al innovation and its potential to influence the future of Al governance on a global scale.



#### **FAQs**

What is the new toolkit launched by Singapore for testing the safety of general AI models? Singapore has introduced an AI testing toolkit developed in collaboration with partners such as DataRobot, IBM, Singtel, and Temasek. This initiative is part of Singapore's commitment to leveraging the global open-source community to address AI risks and ensure the tool meets industry needs.

#### What does AI Verify refer to?

Al Verify is an Al governance testing framework and software toolkit designed to enhance transparency in Al applications across various industries, thereby fostering trust.

#### References

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#### Author Bio



Cecil leads the Cyber Security & DFIR unit for BDO Advisory. He currently leads various engagement teams on diversified advisory, security testing and incident response projects across vertical industries. His current area of focus is in IT Security research and security testing. Prior to this, he was the Practice Lead for Trustwave SpiderLabs SEA, which is the advanced security services and research team that specialises in penetration testing, incident response/forensics, education services, and security research.



# Article from SVRP 2023 Gold Winner, Soh Yi Wei [NP]



#### How do you think SVRP has directly impacted your cybersecurity journey?

It has impacted me as it motivates me to make an impact and contribute to making a positive in cybersecurity even if the amount may not be much as i know there are peers that are like me that would do similar things.

#### How has SVRP inspired you to contribute to the cybersecurity field?

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#### What motivates you to be a student volunteer?

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#### How would you want to encourage your peers to be interested in cybersecurity?

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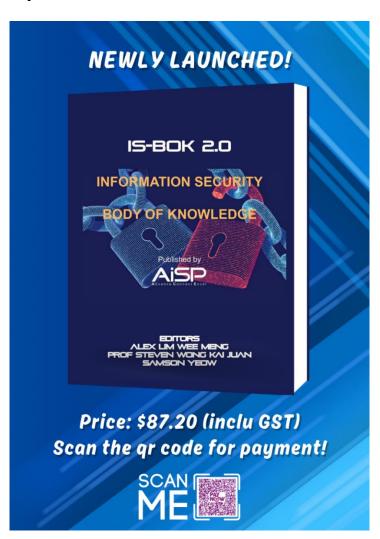


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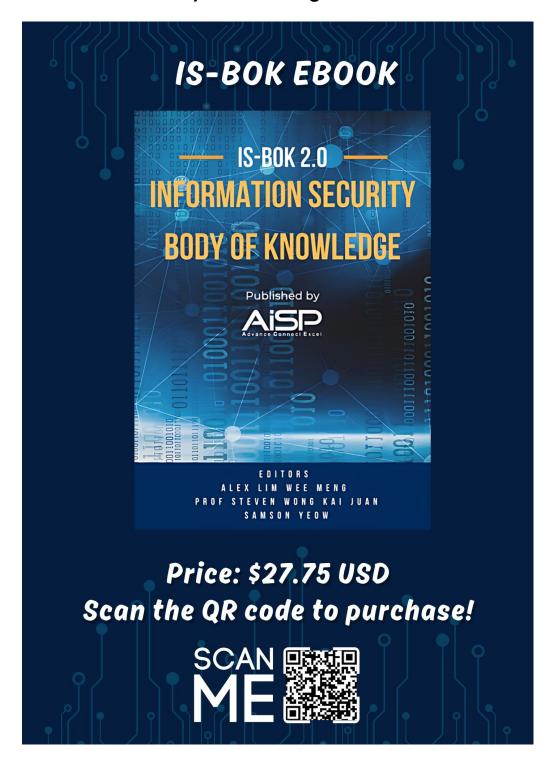
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- Created great flexibility in the approach: candidates are now able to pick the order in which they take the components of the exam
- Ensured the whole exam can be concluded within a day: candidates can now book to sit both the written and practical elements of the exam on the same day and
- Changed the use of own machine and tooling: candidates will in future be able to access tooling within the Pearson VUE exam environment rather than bringing their own laptops, supported by access to the toolset ahead of the exam and the ability to upload materials in advance to assist you when taking the exams.

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