Jun Wei **Woon**

STUDENT AT SINGAPORE INSTITUTE OF TECHNOLOGY (SIT)

Singapore

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I am a student currently persuing a Degree in Computing Science at Singapore Institute of Technology(SIT) and a SHINE Intern at Singtel. I have a deep driven passion for security, electronics and automation.

Employment

Security Engineer SHINE Intern   *Singapore Telecommunications Ltd (Singtel)*

TECHNOLOGY AND SERVICE ASSURANCE   *September 2024 –> Present*

- Developed and optimized SIEM-SOAR workflows, implementing automated data transformation pipelines to standardize log formats, reduce processing time, and enhance threat detection accuracy.
- Engineered scalable automation to reduce redundant alerts and enhance threat detection.
- Collaborated cross-functionally with security engineers and analysts to integrate adaptive log parsing mechanisms, ensuring seamless ingestion of heterogeneous log sources while maintaining data integrity.

Armament Technician Specialist   *Singapore*

SINGAPORE ARMED FORCES   *July 2020 –> July 2022*

- Responsible for maintainence and repair of the armament and C4 Systems of the Hunter Armoured Fighting Vehicle
- Led a section of 7 - 10 technicians for daily maintenance of vehicles

Student Intern   *Cyber Test Systems*

CYBER TEST SYSTEMS   *November 2019 –> Feburary 2020*

- Malware Analysis of a 32-bit Potable executable file
- Log Analysis with security information and event management (SIEM) for the creation of threat signatures based on different cyber attack threat vectors
- Developed A Raspberry Pi GPS-based NTP Server
- Depolyed Hybrid Cyber Range (Server Infrastructure) for services that include — File Sharing (SMB), Domain Name Server (DNS), Network time (NTP)

Administrator   *Coursemology.sg*

OLYMPUS LEARNING ACADAMY   *Feburary 2019 –> March 2019*

- Website Management and creation of new course pages on the website
- Online marketing with email marketing, email automation and Search Engine Optimisation
- Front-end customer service and administration.

Publications

1. Woon, J. W., Sheng Jovian, L. H., Choon How, B. L., Richie, W. R., Yuan, P. X., Abhishek, N. V., & Bin Abbas, M. F. (2024). Multi-protocol wireless mesh sensor network. *2024 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS)*, 1–6. `https://doi.org/10.1109/APWCS61586.2024.10679304`

Education

Singapore Institute of Technology, University of Glasgow   *Singapore/Glasgow*

BSC (HONS) COMPUTING SCIENCE   *2022 –>*

- Cumulative Grade Point Average: 4.73/5
- Provost List AY2023/2024 (Top 2% of cohort)
- Singtel SHINE Apprentice
- Code Olympics 2024 (Participant)
- StandCon CTF 2023 (Participant)

Nanyang Polytechnic   *Singapore*

DIPLOMA IN CYBER SERCURITY AND FORENSICS   *2017 –> 2020*

- Cumulative Grade Point Average: 3.37/4
- Diploma Plus: Linux System Essentials
- NYP Taekwondo Club

Skills

Programming Languages

PYTHON, C, R, JAVA, SQL, PHP, BASH, RUST, C#

Cyber Security

CRYPTOGRAPHY, BASIC REVERSE ENGINEERING, MALWARE ANALYSIS, TRAFFIC ANALYSIS, SIEM, SOAR

Operating Systems

GNU/LINUX, WINDOWS, FREEBSD VARIENTS, FreeRTOS, ROBOT OPERATING SYSTEM (ROS)

Version Control

GIT

IoT

RASPBERRY PI, 3D PRINTERS, ESP32, ARDUINO, ROS

Awards and Certifications

CERTIFICATIONS

Google Advanced Data Analytics   *Coursera*

GOOGLE ADVANCED DATA ANALYTICS CERTIFICATION   *2024*

Google Cyber Security   *Coursera*

GOOGLE CYBER SECURITY CERTIFICATION   *2024*

Amazon Web Services (AWS)   *AWS*

AWS ACADEMY CLOUD FOUNDATIONS   *2023*

Docker   *VMware*

DOCKER FUNDAMENTALS   *2023*

Kubernetes   *VMware*

KUBERNETES FUNDAMENTALS   *2023*

JPMorgan Software Engineering Virtual Experience on Forage   *JPMorgan Chase & Co.*

USED PERSPECTIVE DATA VISUALIZATION SOFTWARE AND PYTHON TO MONITOR STOCK PRICE TRENDS AND CREATE TRADING
STRATEGIES.   *October 2022*

Projects

Multi-Protocol Wireless Mesh Sensor Network   *Singapore Institute of Technology*

IoT PROTOCOLS   *2024*

- Development of a WSN with embedded systems capable of switching between ESP-NOW and LoRa protocols
- Performed testing and gathered data for evaluation of protocols
- Published a paper about the implementation and findings of the WSN

Cybersecurity Capture the Flag (CTF) Competitor   *Singapore*

PARTICIPATED IN HANDS-ON CHALLENGES TO IDENTIFY VULNERABILITIES, ANALYZE EXPLOITS, AND SECURE SYSTEMS   *2022*

- Platforms: Hack The Box (HTB), TryHackMe (THM), PortSwigger
- Competitions: IrisCTF (Forensics, OSINT), StandCon (Crypto), CyberLeague (Forensics, Cloud)

Home Lab   *Singapore*

PERSONAL LAB FOR R&D   *2022*

- PFsense Router/Firewall and DevSecOps services
- TrueNAS Server
- Docker Server for R&D