

Singapore

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Computing Science student at Singapore Institute of Technology (SIT) and Security Engineer Intern at Singtel, passionate about cybersecurity, automation, and embedded systems, with hands-on experience in security analysis and system defense.

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

- Performed maintenance and repair of armament and C4 systems for Hunter Armoured Fighting Vehicles, ensuring operational readiness.
- Led a team of 7-10 technicians in daily vehicle maintenance, troubleshooting, and mission-critical repairs under high-pressure environments.

Student Intern Cyber Test Systems

CYBER TEST SYSTEMS

November 2019 -> February 2020

- · Conducted malware analysis on 32-bit Portable Executable (PE) files, leveraging reverse engineering techniques to identify malicious behaviors and threats
- · Performed log analysis using Security Information and Event Management (SIEM) platforms, developing threat signatures for detecting cyber attack vectors such as brute force, phishing, and malware infections.
- Engineered a GPS-based Network Time Protocol (NTP) server using Raspberry Pi, ensuring precise time synchronization for secure network
- · Deployed and configured a Hybrid Cyber Range infrastructure, implementing critical services including SMB file sharing, DNS, and NTP to simulate real-world cyber environments for security testing.

Administrator Coursemology.sg

OLYMPUS LEARNING ACADEMY

February 2019 -> March 2019

- Managed website content and created new course pages, ensuring seamless user experience and navigation.
- · Executed digital marketing strategies, including email marketing, automation, and SEO optimization to enhance online visibility.
- Provided front-line customer service and administrative support, streamlining operations and improving client engagement.

Publications

Woon, J. W., Sheng Jovian, L. H., Choon How, B. L., Richie, W. R., Yuan, P. X., Abhishek, N. V., & Bin Abbas, M. 1. 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

2022 -> 2025

BSC (HONS) COMPUTING SCIENCE

- 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

2017 -> 2020

DIPLOMA IN CYBER SERCURITY AND FORENSICS

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



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

Offensive Security Certified Professional

Offensive Security In Progress

OSCP

Coursera

GOOGLE ADVANCED DATA ANALYTICS CERTIFICATION

Google Advanced Data Analytics

2024

Google Cyber Security

Coursera

GOOGLE CYBER SECURITY CERTIFICATION

2024

Amazon Web Services (AWS)

AW.S

AWS ACADEMY CLOUD FOUNDATIONS

2023

VMware

DOCKER FUNDAMENTALS

Docker

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

Cybersecurity Capture the Flag (CTF) Competitor

Singapore

ETHICAL HACKING & VULNERABILITY ANALYSIS

- · Engaged in hands-on security challenges to identify vulnerabilities, exploit weaknesses, and implement defensive measures across web, network, and binary exploitation domains.
- Competed in high-profile CTF events, specializing in forensics, OSINT, cryptography, and cloud security. Platforms: Hack The Box (HTB), Try-HackMe (THM), PortSwigger. Competitions: IrisCTF, StandCon, CyberLeague.

Multi-Protocol Wireless Mesh Sensor Network

Singapore Institute of Technology

IOT PROTOCOLS

PERSONAL LAB FOR R&D

2022

- · Designed and implemented a Wireless Sensor Network (WSN) with embedded systems, enabling seamless switching between ESP-NOW and LoRa protocols for adaptive communication.
- Conducted performance testing and data collection to evaluate protocol efficiency, network latency, and reliability in dynamic environments.
- · Authored and published a research paper detailing the architecture, implementation, and findings of the WSN, contributing to advancements in IoT and wireless communication.

Home Lab Singapore

Deployed and configured a pfSense-based router/firewall to enhance network security and implement DevSecOps services.

- Set up and managed a TrueNAS server for secure data storage, redundancy, and network-attached storage (NAS) solutions.
- Implemented a Docker server for containerized application deployment, testing, and research in cybersecurity and automation.