

# 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

- Responsible for updating and improving the Automation System(s) of the Advance Security Operations Centre (ASOC)
- Perform refactoring of SOAR Playbooks to fit automation use cases
- Development of scripts to streamline operations

### 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 -> February 2020

- Malware Analysis of a 32-bit Portable 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 ACADEMY

February 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.

### Instructor

Millenia Walk, Singapore

JH KIM TAEKWONDO INSTITUTE(MAIN)

May 2016 -> June 2016

- Taught Children and Young adults Taekwondo Basic hand and kicking techniques for self defense

### Instructor

Singapore

TEAM SPECTRUM TAEKWONDO

August 2015 -> Present

- Taught classes of varying ages —Toddlers - Seniors Taekwondo hand and kicking techniques for self defense
- Instilling values in younger students
- Responsible for weekly training sessions for competitive and non-competitive environments

## 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)

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

## Skills

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### 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 VARIANTS, FREERTOS, ROBOT OPERATING SYSTEM (ROS)

### Version Control

GIT

### IoT

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

## Awards and Certifications

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### CERTIFICATIONS

#### Google Advanced Data Analytics

GOOGLE ADVANCED DATA ANALYTICS CERTIFICATION

Coursera

2024

#### Google Cyber Security

GOOGLE CYBER SECURITY CERTIFICATION

Coursera

2024

#### Amazon Web Services (AWS)

AWS ACADEMY CLOUD FOUNDATIONS

AWS

2023

#### Docker

DOCKER FUNDAMENTALS

VMware

2023

#### Kubernetes

KUBERNETES FUNDAMENTALS

VMware

2023

#### JPMorgan Software Engineering Virtual Experience on Forage

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

JPMorgan Chase &amp; Co.

October 2022

## Projects

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### Multi-Protocol Wireless Mesh Sensor Network

IoT PROTOCOLS

Singapore Institute of Technology

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

### Brain MRI Classification and Segmentation

ARTIFICIAL INTELLIGENCE/MACHINE LEARNING

Singapore Institute of Technology

2024

- Research and development project to classify 2D brain MRI Images
- Implemented Efficient-UNet Architecture with Tensorflow to perform classification and segmentation operations
- Performed testing and collection of qualitative and quantitative metrics for evaluation of model

### Home Lab

PERSONAL LAB FOR R&amp;D

Singapore

2022

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