

# 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). I have a deep driven passion for security, electronics and automation.*

## Employment

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### Armament Technician Specialist

SINGAPORE ARMED FORCES

Singapore

July 2020 → July 2022

- Responsible for maintainence and repair of the armament and C4 Systems of the Hunter Armoured Fighting Vehicle
- Led a sction 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 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

OLYMPUS LEARNING ACADAMY

Coursemology.sg

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

JH KIM TAEKWONDO INSTITUTE(MAIN)

Millenia Walk, Singapore

May 2016 → June 2016

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

### Instructor

TEAM SPECTRUM TAEKWONDO

Singapore

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

## Education

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### Singapore Institute of Technology, University of Glasgow

BSC (HONS) COMPUTING SCIENCE

Singapore/Glasgow

2022 →

- Cumulative Grade Point Average: 4.72/5
- Code Olympics 2024 (Participant)
- StandCon CTF 2023 (Participant)

### Nanyang Polytechnic

DIPLOMA IN CYBER SERCURITY AND FORENSICS

Singapore

2017 → 2020

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

### Balestier Hill Secondary School

GCE 'O' LEVELS

Singapore

2013 → 2016

- Aggregate Score: 13

# 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

## Markup Languages

CSS, HTML, L<sup>A</sup>T<sub>E</sub>X, MARKDOWN

## Data Interchange Formats

CSV, JSON, XML

## Operating Systems

GNU/LINUX, WINDOWS, FREEBSD VARIANTS, FREERTOS, ROBOT OPERATING SYSTEM (ROS)

## Version Control

GIT

## Microsoft Office

OUTLOOK, ONENOTE, POWERPOINT, WORD, EXCEL

## IoT

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

# Awards and Certifications

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## CERTIFICATIONS

### 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 & Co.*

October 2022

### HackerRank

SQL(BASIC)

*HackerRank*

2022

### HackerRank

PYTHON(BASIC)

*HackerRank*

2022

# Projects

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## Niryo Ned 2 Development

ROBOTIC ARM DEVELOPMENT

- Robot Arm Package(s) development based on Robot Operating System (ROS)
- Skills acquired: ROS Development, Computer Vision, Scrum Framework

*Singapore Institute of Technology*

2023

## FreeRTOS Car

AN EMBEDDED SYSTEMS PROJECT

- Maze-solving robot car based on FreeRTOS, employing the use of multiple sensor components
- Skills acquired: C, FreeRTOS, Sensor Driver development and integration

*Singapore Institute of Technology*

2023

## Linux Driver Development

A USER & KERNEL SPACE COMMUNICATION APPLICATION

- Linux User-Space and Kernel-Space driver development to allow for hashing and communication
- Skills acquired: C, Linux Kernel Driver Development, Bash

*Singapore Institute of Technology*

2023

## SafeShare

Singapore Institute of Technology

A SAFE, DISTRIBUTED FILE SHARING APPLICATION

2023

- A python-based, scalable and distributed file sharing application coupled with virus scanning technology as a microservice utilising Docker and Kubernetes (K8S)
- Skills acquired: Docker, Docker Compose, Kubernetes, Distributed Systems, Cloud Computing

## LaDo

Singapore

TODO LIST & POMODORO APPLICATION

2023

- A todo list developed using Laravel and its technologies
- Skills acquired: Laravel 10 and toolkit (Breeze, Livewire, Sanctum, Eloquent)

## FormBuilder

Singapore Institute of Technology

PHP FORMBUILDER LIBRARY

2023

- A form builder PHP library for CodeIgniter4 that provides APIs and frontends to developers
- Skills acquired: PHP, CodeIgniter4, PHP Library development

## Steganography with Python

Singapore Institute of Technology

A PoC APPLICATION OF LSB-BASED STEGANOGRAPHY

2023

- Least Significant Bits (LSB) Steganography application with support for multiple file type Information Hiding
- Skills acquired: LSB Steganography for multiple file formats

## Crealty Ender 3 V2 3D Printer

Singapore

3D PRINTER

2022

- 3D Printer powered by a Raspberry Pi to print functional parts for replacement/repair of equipment
- Modified and engineered to print different materials at a higher speed and accuracy

## Home Server

Singapore

DOCKER-BASED SERVER

2022

- Decommissioned personal computer recommissioned as a docker-based server that serves applications like bitwarden and Gitea

## Home Network router

Singapore

PFSense NETWORK ROUTER

2021

- Installed and configured PFSense router software on decommissioned Personal Computer(PC) to serve as a home network router at home. This allows for better control and configuration of my home network to suite my family's needs.
- Services Include — Network Segregation, Load Balancer, DNS Server/Forwarder, Reverse Proxy Server, Wireguard VPN Server

## devblog.periodicc.com

gitlab.com

GITLAB-HOSTED WEBSITE

2020

- Deployed a website with Gitlab's CI/CD to serve as a portfolio and a cheatsheet/guide for future code and configuration references

## Home File Server

Singapore

FREENAS NETWORK-ATTACHED STORAGE

2019

- Installed, configured and secured FreeNAS as a network storage for my family to store files off their devices