AMOS GOH EN JIE

SOFTWARE PASSIONATE

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PROFILE SUMMARY

I am a passionate Cybersecurity and Software Development enthusiast, dedicated to exploring emerging threats and creating secure solutions. I thrive on studying white papers to uncover how bad actors exploit systems while applying these insights to design resilient, efficient applications. My adaptability and enthusiasm for experimenting with frameworks and techniques make me a versatile, valuable teammate. My habit of researching technologies has sharpened my ability to quickly learn and apply new methods, enabling me to stay updated with the latest advancements in cybersecurity and software development. My broader interest in software development inspires unique solutions that seamlessly integrate security and innovation.

EDUCATION

April 2023 - Present

Diploma in Cybersecurity & Digital Forensics (N94)
Ngee Ann Polytechnic

cumulative GPA : 3.91
Last semester GPA : 4.00

PROJECTS / EXPERIENCES

Trojan / Virus
Skills : Learned how to build a persistent virus/ backdoor and perform advance reverse engineering
- Bypass signature recognition by anti-viruses.
- Reverse engineer malwares, with debuggers like the x64dbg.

Softwares Developments
Skills : Software production from backend to frontend to design
- Data Visualization software for my secondary school to visualize students' data.
- Websites -> react, flask, next, express.
- Apps (IOS) swift

Data Scraping
Skills : Scarp data from the internet bypass bot prevention systems automate data collection
- OSINT frameworks and tools to assist automated background check on an individual.
- Bypass cloud-fare and other web protection services for **testing purposes**. (Python / Node-JS)

Embedded Programming
Skills : Learned to program microcontrollers
- Raspberry Pi and ESP-32 to build hacking tools. (Rubber duckies, etc).
- packet capture tools to perform network based attacks through the microcontrollers.

Machine Learning (AI solutions)
Skills : NEAT research
- genetic algorithm (GA) for the generation of evolving artificial neural networks.
- Implement research from research papers (example UBER) and rewriting existing libraries for custom genomes. Modified NEAT algorithms to try combined training methods.

Linux and Active Directory (Setting up servers)

Skills : Hardening and setting up firewall policy

- Set up Linux servers and Active Directory server, then securing the servers.
- Set up firewalls policy (Palo Alto) and setting up site to site VPNs. (KL to SG)

Penetration testing (Pen-testing, CEH)

Skills : conducting pentesting and bug bounties programs

- Bug bounty program on Hackerone for trip.com and discovered a **CVSS 8.1 exploit**. (Race condition)
- Red Hat OS to pen test machines through tools such as NMAP, Ettercap, johntherippper, etc.

PROGRAMMES I HAVE ATTENDED

Apple Swift Accelerator (1 year)

Skills : Learned how to build and market IOS applications

- Lead a team of software developers to build a successful product.
- Branding and Marketing from Apples App developers.
- Application security.

Amazon AWS Accelerator (1 year)

Skills : Learned machine learning

- Used critical thinking and design thinking skills to solve Singapore Tampines town council problems
- I learned the theory behind machine learning, implement math for the models (linear algebra) and harvesting data. While being expert in pandas and numpy, as well as other machine learning libraries.

Geekout 2024

Skills : Learned design thinking and product development

- Design a web architecture and build the solution under tight deadline of 24 hours.
- LLMs fine tuning.

INTERESTS CLUBS I AM IN

Singapore Computer Society (SCS@NP Vice President)

Skills : Lead teams of people and networking

- Lead people to organize events.
- Lead and developed a management software system for SCS at NP.
- Organizing Volunteering sessions at homeless shelter

Ngee Ann Polytechnic Cyber Security Club (NullSec)

Skills : Learned Cybersecurity skills

- Network with like-minded individuals interested in cybersecurity.
- Learn from them any discovery they have made.
- Chance to conduct lessons

WHAT I AM WORKING ON

Hangout App

Business startup idea

Other then cybersecurity, I love creating impactful solutions and bringing them to life. Hence I am exploring building an App that can help others plan their hangouts with machine learning models!

WorldSkills Singapore

Training for 2025

I have been training to represent Ngee Ann polytechnic in the upcoming world skills event for Web Technologies training to be an expert in areas such as full stack development with react and database management. This also includes perfecting data structure and algorithms (DSA).