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Introduction

I am a technology enthusiast and am always learning new trends, tools, and techniques to hone my skills as a software engineer and utilize my cybersecurity background to ensure my systems built are secure and efficient.

Awards & Achievements

N0H4TS STANDCON CTF

- 1st Place (2022)

GovTech STACK the Flags (Tertiary)

- 4th Place (2022)
- 10th Place (2020)

DSTA CDDC CTF (University)

- 5th Place (2022)
- 10th Place (2021)

CSIT The InfoSecurity Challenge

- 10th Place (2020)

SAF CSSCOM

- Innovative Project Award (2021)
- Letter of Commendation (2020)
- Commander's Coin (2019)

Skills And Abilities

Languages:

- English
- Mandarin Chinese

Programming Languages:

- JavaScript / HTML / CSS
- C / C++
- Python
- Java

Technologies:

- Amazon Web Services
- Firebase

Education

National University of Singapore (August 2020 – Present)

Bachelor of Computing in Information Security (with Honours)

- Expected Graduation: May 2023
- Current CAP: 4.7 / 5.0
- Teaching Assistant for CS2113T Software Engineering & Object-Oriented Programming for AY 21/22 Sem 2
- NUS Greyhats Member (2020)

Singapore Polytechnic (April 2015 – April 2018)

Diploma in Information Security Management

- GPA: 3.973 / 4.0
- Awarded Diploma with Merit (ISACA Award Recipient)
- President of DISM Gryphons (2016 – 2017)

Work Experience

Software Engineer Intern (May 2022 – August 2022)

Visa Inc

- Developed user interface for automation with ASP.NET and JavaScript for network operations team, reducing error from manual checks in OSPF and BGP servers.

Information Security Engineer – Freelancer (December 2021 – April 2022)

PayPal

- Developed and maintained secure data sharing platform using Private Set Intersection and Homomorphic Encryption in Go and C++, ensuring data privacy and security of both parties.
- Collaborated with Nanyang Technological University on research towards Multi-Party Computation in Go, improving user privacy and redundancy of cryptography services.

Lead Programmer (January 2019 – August 2020)

Singapore Armed Forces

- Contributed to the COVID-19 fighting efforts by reducing administrative overhead through sending of medical appointment messages automatically through AWS and NodeJS.
- Reduced accounting errors in logistics by developing mobile application software to track expenditure of equipment using Dart and Flutter.
- Improved welfare of colleagues by transitioning paper based off-taking system to an online system with JavaScript, VueJS, and Firebase

Research and Development Intern (April 2017 – August 2017)

Singapore Telecommunications Limited

- Provided reliable data ingestion for large volumes of streaming data into machine learning network through Apache Kafka, Scala, and Java.
- Supported government project to monitor malicious traffic using statistical analysis methods using Iguazio Platform, Python and Netflow.

Other Projects

TraceIT – Contact Tracing System (@IFS4205-TraceIT/TraceIT-for-IFS4205-testing)

For NUS Module: IFS4205 – Information Security Capstone Project

- TraceIT is a full-fledged contact tracing system utilizing BlueTrace protocol, k-anonymization, and encryption by default to ensure high security and privacy of user data.
- Built with: Django, Django Rest Framework, HashiCorp Vault, Nuxt 3, PostgreSQL, Ansible, GitHub Actions,

Eleos - Decentralized Charity Platform (@IS4302-Eleos/Eleos)

For NUS Module: IS4302 - Blockchain and Distributed Ledger Technologies

- Eleos is built as a decentralized Web 3.0 application (dApps) to remove the middleman of charity fundraisers.
- Built with: Nuxt 2, Vue, Koa, JavaScript, Ethereum Blockchain, Truffle, Ganache