

Education

NUS(National University of Singapore)

Singapore

B.S. IN COMPUTER SCIENCE

Aug. 2020 - May. 2024 (Exepcted)

Work Experience _____

Quantedge CapitalSingapore

SOFTWARE ENGINEER INTERNSHIP May. 2023 - Aug. 2023

- Design, prototype and develop big data pipelines using Apache Spark and Delta Lake
- Improves local development process by streamlining local kubernetes and aws s3 setup
- Developed devops tools for integrating with databricks and achieved 0 cost local testing and 0 touch deployment through github actions and
 Terraform

National Univeristy Of Singapore

Singapore

Teaching assistant - CS2100 Aug. 2022 - Nov. 2022

• Taught assembly, circuit design and cpu architecture during lab sessions

Alphalab Capital Singapore

SOFTWARE ENGINEER INTERNSHIP

May. 2022 - Aug. 2022

- · Fixed and resolved bugs in legacy python monolithic codebase while migrating legacy components to modern design
- · Added arbitrage finding and trading capabilities by building trading infrastructure on ETH blockchain
- Improved trading account management by developing fullstack web tool for internal usage

STAR Labs Singapore

TOOLS DEVELOPER INTERNSHIP Nov. 2021 - Dec. 2021

· Worked on refactoring and profiled of a custom taint analysis tool written in angr

STAR Labs Singapore

N-day Vulnerability Researcher internship

Mar. 2020 - Jun. 2020

- Discovered and reported 3 vulnerabilities in Singtel Mesh Nodes, assigned CVE-2020-15357, CVE-2020-25545 and CVE-2020-25546.
- Reverse engineered and exploited VirtualBox display driver emulator.

Projects _____

Oat Compiler

DEVELOPER | OCAML

• Compiles a teaching language OAT with polymorphic type checking, compiler optimisation using dataflow analysis and register allocation

Static Program Analyzer

PROJECT LEADER | C++

- Led a team of 6 new C++ programmers for a software engineering project
- Designed and built a static program analyzer with a query interface from ground up

Honors & Awards _____

202	20 1st runner up , STACK the Flags - Capture The Flag	Singapore
202	personal 7th, The InfoSecurity Challenge (TISC)	Singapore
202	20 1st Runner up, Brainhack - Capture The Flag	Singapore
201	9 1st Runner up, Brainhack - Capture The Flag	Singapore
201	7 Champion , Cross CTF	Singapore
201	7 Champion , Cyber Defenders Discovery Camp - Capture The Flag	Singapore
201	6 Champion , Cyber Defenders Discovery Camp - Capture The Flag	Singapore