Bailin Li

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Education

NUS(National University of Singapore)   *Singapore*

B.S. in Computer Science   *Aug. 2020 - Dec. 2023 (Early Graduation)*

- GPA: 4.59/5.0, Dean's List (2020-2021)

Work Experience

BlockTech   *Singapore*

Software Engineer   *Mar. 2024 - Now*

- Build and maintain pricing system for crypto derivatives
- Migrating legacy components to new pricing system with minimal failures
- Refactor and redesign systems with improved logging and observability, reduced time to debug by 50%

Quantedge Capital   *Singapore*

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.

Honors & Awards

2020	**1st runner up,** STACK the Flags - Capture The Flag	*Singapore*
2020	**personal 7th,** The InfoSecurity Challenge (TISC)	*Singapore*
2020	**1st Runner up,** Brainhack - Capture The Flag	*Singapore*
2019	**1st Runner up,** Brainhack - Capture The Flag	*Singapore*
2017	**Champion,** Cross CTF	*Singapore*
2017	**Champion,** Cyber Defenders Discovery Camp - Capture The Flag	*Singapore*
2016	**Champion,** Cyber Defenders Discovery Camp - Capture The Flag	*Singapore*