

Leonard Yam

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EDUCATION

National University of Singapore

Aug 2021 - May 2025

Bachelor of Computing in Computer Science

- CGPA – 4.5/5.0.
- Relevant coursework: Data Structures & Algorithms (A+), Computer Organisation (A+), Database Systems (A), Design and Analysis of Algorithms (A-), Introduction to Operating Systems (A-).

WORK EXPERIENCE

Software Engineer Intern, M-DAQ

Dec 2023 - Present

- Spearheading the design and implementation of a performant, low-latency, full-stack web application, involving a Kotlin backend that provides real-time streaming of Forex rates to a React frontend.
- Improved user experience and reduced technical debt by refactoring an existing React codebase with modern, responsive components.
- Developed with: React, Kotlin, Java, Spring, Docker, Python, Server-sent Events.

Teaching Assistant, National University of Singapore

Jan 2023 - May 2023

- Selected as a teaching assistant for CS2040S Data Structures and Algorithms, demonstrating exceptional mastery over the domain.
- Deepen students' understanding of data structures and algorithms through delivering weekly tutorial sessions and collaborating with fellow tutors to improve accuracy of course materials.

PROJECTS

Redive

- Re-imagined Reddit's user interface for browsing top all-time posts on subreddits through a Next.js web-app that communicates with Reddit's API.
- Developed with: Next.js, React Server Components, TypeScript, CSS Modules.

OPEN SOURCE

[opengovsg/FormSG](https://github.com/opengovsg/FormSG)

- Improved user experience by contributing new features for a no-code form builder used by government agencies.
- Ensured smooth adoption of new features by writing comprehensive tests with Jest and Playwright, and migrating databases with Mongo scripts.
- Developed with: TypeScript, Storybook, Jest, Playwright, Mongoose, MongoDB.

[web-platform-tests/wpt.fyi](https://github.com/web-platform-tests/wpt.fyi)

- Improved code quality by replacing a deprecated Go linter and fixing previously uncaught errors and stylistic issues.

SKILLS

- Languages: TypeScript, JavaScript, Java, Kotlin, Python, C++, C, SQL, HTML, CSS.
- Technologies: React, Next.js, Spring, MongoDB, Docker, GraphQL, Jest, Storybook, Playwright.