

Ching Ming Yuan

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EDUCATION

National University of Singapore (NUS)

Aug 2022 - May 2026

Bachelor of Computing (Hons) with Major in Computer Science (CAP 4.77)

- Awarded NUS Merit Scholarship
- Dean's List, AY 2022/2023 Semester 1
- CS2103T Software Engineering Teaching Assistant

Anderson Serangoon Junior College

Feb 2018 - Aug 2019

Cambridge A-Levels

- Graduated with a UAS of AAA/A with a Merit in H3 Chemistry
- Part of College's Scholars programme, Alpha Scholars Programme

WORK EXPERIENCE

Learnr, Software Engineer Intern, Singapore

Dec 2023 – Present

- Spearheaded the development of an Edu-Tech marketplace, from concept to implementation, using **Elasticsearch** and **Flask**.

Correct Pill, Freelance IOS Developer, Singapore

Nov 2022 – Jul 2023

- Successfully migrated existing codebase from **Objective-C** to **Swift** and implemented automated testing of Swift code
- Spearheaded the Implementation of a **Bluetooth Low-Energy** (BLE) feature to integrate with existing codebase.
- Worked around the limitation of **IOS** by embedding additional encrypted data in BLE devices broadcast blasts, resulting in a significantly quicker authentication process.

Cyber Sierra, Software Engineer Intern, Singapore

Feb 2022 – Aug 2022

- Worked mainly as a backend software engineer while also assisting as an DevOps engineer.
- Prototyped a cartography software that scans and maps companies footprints on cloud service providers such as **AWS**, **Azure** and **Google Cloud Platform**.
- Developed a data analytics and visualisation software using **Elasticsearch** that executes thousands of queries against the indexed data to unveil possible vulnerabilities and misconfigurations.
- Productionised an employee training and counter phishing module in **Slack** that is geared towards helping enterprises achieve cyber security certification such as ISO. This software is currently being sold in the India market.

PROJECTS

TEAMMATES (NUS OSS), Software Engineer, Singapore

Jan 2024 – Present

Technology used: Java EE, Angular, Javascript, HTML, CSS, Google Cloud

- On pace to implement a major contribution to TEAMMATES, an online feedback management system for education used by more than 1,000,000 users as part of CS3281.

[Starttr](#), Technical Lead, Singapore

Nov 2023 – Present

Technology used: NextJS, TypeScript, React, Redux ToolKit, RTK Query, Flask, MongoDB, Socket.IO

- Planned the architecture and led the setup of the repository including **CI/CD** and **containerisation**.
- Within a month, advanced from initial ideation to the launch of an event networking application which is currently being used by **UNICON NUS** among other events.

Google Developer Student Club (GDSC NUS), Software Engineer, Singapore

Sep 2023 – Present

Technology used: NextJS, TypeScript, React, Redux ToolKit, RTK Query, Express.js, Prisma

- Spearheaded the development of three key pages of a volunteer management system for **MINDS** Singapore.
- Single handedly created a data-table component with inbuilt faceted filtering and pagination and a global toast notification builder, both of which are used extensively in other routes.

NUS Fintech Society, Software Engineer, Singapore

Aug 2023– Present

- Developed two webpages in **NextJS** to visualise the capabilities of club generated Machine Learning models.

HACKATHONS

NUS Hack & Roll (Winner)

Jan 2024

- Developed a Real-Time Voice Interactive Chatbot for Central Provision Fund (CPF) Singapore, integrating **Twiml**, **GPT-4**, **Pinecone**, and **embeddings** to provide instant and accurate responses. Winners among **200** competing teams.

ADDITIONAL INFORMATION

Languages: English, Mandarin, Python, Golang, Java, TypeScript, Tailwind, React, NextJS

Interests: Basketball, Running and strategy games