Ching Ming Yuan

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EDUCATION

National University of Singapore (NUS) — Expected May 2026
Bachelor of Computing (Hons) with Major in Computer Science (CAP 4.82)
- Awarded NUS Merit Scholarship
- Dean's List, AY 2022/2023 Semester 1
- CS2103T Software Engineering Teaching Assistant

WORK EXPERIENCE

GIC (Government of Singapore Investment Corporation) — Singapore
Software Engineering Intern - Front Office TPS — May 2024 – Present
- Devised and implemented an On-The-Fly testing feature that allows users to mock the entire server state, estimated to decrease **UAT** and **developer** testing by **3,600+** hours annually.
- Developed an event log feature that enabled front office users to track activities, enhancing transparency and efficiency.
- Improved system efficiency by **10%** by migrating from **Spring Boot's FeignClient** to **Webclient.**

Correct Pill — Singapore
Mobile Software Engineer - Patient Management Platform — Nov 2022 – Present
- Migrated existing codebase from **Objective-C** to **Swift** and implemented automated testing of Swift code.
- Reduced **BLE** authentication process by over **400%** by embedding additional information in broadcast blasts.
- Optimised the process flow for Bluetooth connection and nurses's patient management system.

Learnr — Singapore
Software Engineer Intern - Edu-Tech SaaS — Dec 2023 – Apr 2024
- Built a **full stack** Edu-Tech marketplace, from concept to implementation, using **Elasticsearch** and **Flask.**
- Designed and implemented a **service registry** and **gateway** service to accommodate the growing micro service architecture.

Cyber Sierra — Singapore
Software Engineer Intern - AI cybersecurity platform — Feb 2022 – Aug 2022
- Developed an **cartography** module that maps companies footprints on cloud service providers such as **AWS**, **Azure**, **GCP**.
- Created an data analytics and visualisation module using **Elasticsearch** that executes thousands of queries against indexed data from prior workflows to unveil possible vulnerabilities and misconfigurations to customers.

PROJECTS

Jouvire — Singapore
CTO & Co-founder - AI Wedding Planner — Jan 2024 – Present
- Led a team of **4** to develop a modern **Typescript** web application whilst working closely with wedding planners and couples.
- Designed and developed a vendor marketplace and management feature with over **100** onboarded vendors.
- Awarded the NUS Venture Initiation Programme (VIP) grant over **50** competing teams.

TEAMMATES (NUS OSS) — Singapore
Software Engineer - Peer Evaluation Platform — Jan 2024 – Aug 2024
- Led the database migration from **GCP** to **AWS** to decrease cloud hosting cost by 17%.
- Implemented a script to help automate the creation of **E2E test fixtures**, estimated to cut down testing time by over **60%**.
- Mentored over **13** open source contributors and enforced code quality via code reviews and pair programming.

Startr — Singapore
Co-founder - Hackathon Networking Platform — Nov 2023 – Jan 2024
- Developed a **full stack** event networking application used by **UNICON** NUS among other events in a month.
- Added matchmaking and chat features with **100+** users at its peak.

Google Developer Student Club (GDSC NUS) — Singapore
Software Engineer - Team MINDS — Sep 2023 – May 2024
- Spearheaded the development of **three** key pages of a volunteer management system for **MINDS** Singapore.
- Created a reusable data-table component with inbuilt faceted filtering and pagination and a global toast notification builder, both of which are used extensively in other features.

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, Squash, Running and strategy games
Technology used: SpringBoot, NextJS, TypeScript, React, Redux ToolKit, Express.js, Prisma, FastApi