

# Ng Kok Jing

harryngkokjing@gmail.com • +65 85040648 • [linkedin.com/in/ng-kok-jing](https://www.linkedin.com/in/ng-kok-jing) • [harryngkokjing.com](https://harryngkokjing.com)

## EDUCATION

Singapore Management University

August 2024 - Present

Bachelor of Science (Software Engineering)

Singapore

- Teaching Assistant - Python / Data Structures and Algorithms / Object-Oriented Programming
- Teaching Assistant - Web Application Development (Express.js & MongoDB)

## EXPERIENCE

Software Engineer Intern

December 2025 - April 2026

AI Shophouse

Singapore

- Developing AI tutor chatbots with **Hugging Face** and **LangChain** to support mid-career professionals in upskilling, by migrating data to **PostgreSQL** on **GCP** and implementing **RAG retrieval** with persistent chat memory.

Devops Engineer Intern

June 2025 - August 2025

Infosys Limited

Bangalore, India

- Designed and implemented a **ROS** build environment in **RHEL 9** using **Docker**, to standardize development workflows and minimize setup inconsistencies.
- Configured custom **Docker networks** using **Docker Compose** to facilitate ROS node-to-node communication.

## TECHNICAL PROJECTS

Sea Link Finance | NUS FinTech Summit 2026 | Next.js, TypeScript Tailwind CSS, XRPL.js, CrossMark SDK | [DevPost](#), [GitHub](#)

- Built a XRPL maritime finance MVP leveraging **Native Hooks** and **RLUSD** for tokenized voyage financing, placing **3rd place** in the main track at NUS FinTech Summit 2026 by solving shipowner liquidity challenges.
- Developed a transaction monitoring system polling XRPL memos with incremental sync and automated reconciliation into UI state, delivering live dashboard updates for maritime settlements and displaying payment events instantly without manual refresh.
- Built wallet authentication using **Crossmark SDK** to retrieve addresses and sign XRPL transactions, enabling seamless DID creation and credential onboarding with user approval flows.

Git Gram | Personal Project | Golang, Fiber, GitLab CI/CD, Docker, Google Cloud | [Telegram Link](#), [GitLab](#)

- Developed a **Go/Fiber** Telegram Bot that consumes GitHub App **webhooks** with HMAC signature verification, makes GitHub App API calls using **JWT**, and replies to custom commands (/start, /status, etc) to deliver real-time repo notifications.
- Implemented **Firestore CRUD** with the **Go SDK** to map Telegram chat IDs to GitHub App installation records and persist per chat notification settings (mute/unmute, status, unlink).
- Automated the containerization of API service and deployment on **Google Cloud Run** with **GitLab CI/CD**.

NoteSync | Coursework | React, Tailwind CSS, Vite, Firebase | [GitHub](#), [Website](#)

- Led frontend architecture for a YouTube timestamped notes platform enabling time-synced note-taking during video playback.
- Implemented **Google and GitHub OAuth** using **Firebase Authentication** for secure and seamless user login.
- Integrated the **YouTube Data API** with **Firestore** to enable video embedding, timestamp capture, direct playback from notes, and **real-time CRUD synchronization** across user sessions.

## TECHNICAL SKILLS

Languages & Frameworks: HTML, Tailwind CSS, React, Python, Express.js, Golang

Technologies: Git/GitHub, GitLab, Linux, Docker, MySQL, MongoDB, Vite, , Selenium, Vercel, Firebase, GCP

## LEADERSHIP & INVOLVEMENT

SMU Artificial Intelligence Club | [Website](#)

May 2025 - Present

Programmes Lead

- Spearheading the design and execution of **AI-focused events**, including technical workshops and networking sessions, to enhance practical skills and industry engagement of **more than 500** club members.

SMU Coder's Assembly | [Article](#)

August 2025 - Present

Coding Mentor

- Mentoring 10+ freshmen in Python and full-stack web development (HTML, JS, Express.js, MongoDB) through weekly sessions.