

Ong Shi Hui, Magenta

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EDUCATION

Singapore University of Technology and Design (SUTD)

2023 – 2027

B.Eng. in Computer Science and Design with *Software Engineering Focus*

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Databases, Network Security, Distributed & Parallel Computing, Machine Learning, Computer Systems Engineering

WORK EXPERIENCE

foodpanda, Delivery Hero | Backend Software Engineer Intern

May 2026 – Present

- Designed and developed scalable backend components for Quick Commerce localization flows within a GraphQL-based microservices supergraph (Delivery Hero Quick Commerce Apollo Supergraph), spanning 18 countries across Pandora brands (foodpanda, foodora, yemeksepeti) and serving 36 production endpoints. Supporting a production request path processing 200M+ requests per week
- Led backend translation API migration by implementing adapter logic, response mapping, configuration, caching, feature-flagged rollout paths, observability, and production validation; identified and resolved a production-blocking Android placeholder compatibility issue prior to rollout, preventing downtime for
- Built unit and integration tests with WireMock and Mountebank; monitored service health via Grafana and ArgoCD; collaborated with Delivery Hero Berlin HQ and regional teams via Git, Jira, and CI/CD pipelines.

GovTech Singapore | Software Engineer Intern (Incoming)

Aug 2026 – Jan 2027

- Incoming intern at MAESTRO MLOps, building backend services for scalable, high-availability AI/ML infrastructure, and production reliability.

CPF Board | Automation Software Engineer Intern

Sept 2025 – Dec 2025

- Built JavaScript web-scraping and data-processing pipelines to automate staff-directory extraction, cutting runtime from 40s to 1.6s per department (25× faster); deployed modular automation flows across HR departments.
- Designed maintainable, scalable automation systems translating business requirements into production-ready software; delivered in Agile sprints with Git and CI/CD.

GenEd | Co-Founder & Software Engineer

Mar 2025 – Jan 2026

- Led full-stack system design and development of an AI-powered LMS using React, Node.js, PostgreSQL, Express.js, and Clerk; built LLM/Twilio-based mentor chatbot with Malaysian government collaborators.
- Awarded S\$6,000 SUTD Baby Shark Fund; advancing research into AI-driven PDF-to-course generation accuracy.

PROJECTS

CompostKaki — Community Composting Platform

Jun 2025 – Present

- Built and deployed a Next.js + Supabase platform for compost bin tracking and community task logging; serving as a Part-Time Software Engineer at People's Association (Mountbatten CIT, Sparks Division), targeting rollout to community centres across Singapore.
- Awarded S\$20,000 by People's Association; developed at OGP Build For Good Community Hackathon 2025.

BefriendersCircle — Full-Stack Caregiver Platform

May 2025 – Aug 2025

- Built scalable backend (Express.js, MongoDB) and modular React frontend with JWT auth and RESTful APIs; achieved 89% frontend and 77% backend statement coverage across unit, integration, and Cypress E2E test suites.

LepakLah! — AI Senior-Centric Mobile App

Jun 2024 – Sept 2024

- Won 3rd Place, Dell InnovateFest 2024; built Flutter app with personalised Buddy Matching Algorithm, deployed on RedHat OpenShift with Docker and Kubernetes.

TaskTales — Gamified Task Management App

Jan 2025 – Apr 2025

- Built Android app in Java with OOP design, Firebase auth, and gamified dashboards; awarded Singtel Information Systems & Programming Award (S\$900).

LEADERSHIP

House Guardian Senator (EXCO) & SAC Housing Representative, SUTD

2024 – 2026

- Led 6-member executive committee coordinating activities for a 50-member organisation; managed welfare of 1,100+ hostel residents.
- Represented student body on Student Association Council (SAC), advocating housing policy and resolving resident issues at an institutional level.

TECHNICAL SKILLS

Languages: Go, Python, Java, JavaScript, TypeScript, SQL — **Backend:** GraphQL, REST APIs, Node.js, Express.js, Microservices, System Design — **Frontend:** React, Next.js, TailwindCSS — **Databases:** PostgreSQL, MongoDB, Firebase, Supabase — **Testing:** Jest, Supertest, Cypress, WireMock, Mountebank — **Infra:** Docker, Kubernetes, OpenShift, AWS (basic), CI/CD, Grafana