

ZI HUNG KONG

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EDUCATION

National University of Singapore (NUS) Bachelor of Computing in Computer Science - Grade: 4.79 / 5.00 (Highest Distinction) - Achieved Top 5% performance in CS2103T: Software Engineering	Aug 2023 - May 2027
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WORK EXPERIENCE

Software Development Intern, SMRT Corporation LTD, Singapore - Built a proof-of-concept reusable workflow engine (2 workflows) with role-based permission control - Scaled the system to 20M+ event records at sub-100ms response times, eliminating race conditions via Serializable isolation - Evaluated DDD, layered, and event-sourcing architectures against development efficiency and long-term maintainability - Authored FRS via stakeholder meetings and Diátaxis-structured technical documentation	Jan 2026 - Jun 2026
Software Engineer Intern, LENOR AI PTE. LTD, Singapore - Revamped annotation system to reach 99% underline accuracy - Designed side-panel layout algorithm for 60+ annotations per page without overlap - Optimised AI grading with prompt chaining & token reduction, improving efficiency and achieving ~80% alignment with teacher standards - Built client-side OCR diagnostic tool, cutting debugging time by eliminating server log checks	Apr 2025 - Aug 2025

PROJECTS

Flowyd - Typescript State Machine Library - Published a strongly-typed state machine to NPM, using Zod to catch invalid states, actions, and payloads at compile time and enforce custom constraints at runtime - Built a React-based web runner where users draw a workflow graph and generate the corresponding code directly	May 2026
LocalTalk – Real-time Chat Application - Built a Next.js + Socket.IO app with map-based chat rooms, supporting real-time presence, typing indicators, and instant delivery - Designed a scalable Prisma + PostgreSQL schema to handle high-volume concurrent messages - Deployed on Azure with Nginx proxy, achieving low-latency performance in live testing	May 2025
Peeka Book – Facility Booking Platform - Developed a full-stack React + Express + MySQL system with role-based workflows for managers and users - Deployed across Netlify, Render, and AWS RDS, enabling reliable access for 30+ pilot users	May 2024

CO-CURRICULAR ACTIVITIES

Team Manager, King Edward Hall Basketball Team, Singapore Managed logistics and communication for 40 athletes in 8 Inter Hall Games rounds	Jul 2023 - May 2024
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TECHNICAL SKILLS

- Languages: Java, TypeScript/Javascript, Go, Python, C, SQL
- Web: React, Next.js, Express
- Tools: Git/GitHub (CI/CD), Docker, Kubernetes, Vim