Ong Han Wei

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EDUCATION

National University of Singapore
Aug 2021 - May 2025 [Expected]

- Bachelor of Computing in Computer Science
- GPA: 4.35 / 5.0
- Dean's List for AY23/24 Semester 1
- Certificate of Distinction in Software Engineering Focus Area
- Certificate of Merit in Artificial Intelligence Focus Area

INTERNSHIP & WORK EXPERIENCE

NCS Pte Ltd, Generative AI Intern
Jan 2025 - Present

- Designed chatbot evaluation framework with dynamic user personas and adaptive test agendas, cutting evaluation time by 90% (from weeks to hours), accelerating QA cycles.
- Pioneered a proof-of-concept LLM-as-judge workflow, built with critiques manually provided by Subject Matter Expert, projected to achieve over 90% accuracy within 5 iterations.
- Automated documentation generation using MkDocs and Playwright, dynamically capturing screenshots and building static files, reducing manual effort by 93% (45 mins to 3 mins) and eliminating outdated visuals.

Dnd Trading & Services Pte Ltd, Software Developer Intern
May 2024 - Aug 2024

- Devised Barcode Scanning Web Application using Next.js, optimizing logistics workflow, cutting average scan time by 17%, accelerating order processing.
- Developed a RAG-based customer support solution using LangChain and Ollama, cutting operational costs by $144K annually through automation of 3 operators.

Kinexcs Pte Ltd, Software Developer Intern *May 2023 - Aug 2023*

- Implemented a AWS Lambda-powered report generator that reduced patient record retrieval time by 84% and enabled data-driven therapy decisions through historical progress visualizations.

- Diagnosed performance issues in document rendering, then refactored the pipeline with Pandoc, achieving 12x faster processing.
- Crafted inter-clinic referral workflows by integrating patient records into a centralised dashboard across 4 clinics, reducing transfer errors by 30%.

Dart Consulting and Training, Independent Contractor
Mar 2023 - Apr 2023

- Revamped testing protocols for a 3-member QA team, boosting test coverage by 20% through edge-case analysis, ensuring more resilient test suite.
- Optimized grading efficiency by refactoring test cases for 3 programming questions using Pytest, slashing grading time from 180s to 10s per submission.

Kinexcs Pte Ltd, Software Developer Intern
Jun 2022 - Aug 2022

- Secured partnerships with 3 medical clinics by iteratively refining out platform based on client feedback, driving early adoption in the physiotherapy sector.

PROJECTS

OptiMove AI, Software Developer
Feb 2025 - Apr 2025

- Prototyped an LLM-based deduplication system during ITSS x LTA Hackathon, demonstrating 70% noise reduction - proving potential for scalable data-cleaning automation.
- Architected a scalable real-time monitoring pipeline by aggregating real-time data streams, projecting a 25% faster emergency response through optimized alert prioritization.

Peerprep, Software Developer
Aug 2023 - Oct 2023

- Orchestrated a GCP Cloud Function pipeline with Golang to dynamically ingest 200+ LeetCode questions, achieving 60x faster question bank updates compared to manual methods.
- Containerized authentication microservices (JWT/OAuth 2.0) using Docker, potentially scaling securely to 300+ accounts.

TEAMMATES, NUS-OSS, Contributer
Jun 2023 - Aug 2023

- Collaborated on 6 Angular.js Pull Requests (all merged), introducing features and fixes that drove a 10% rise in user satisfaction metrics.

- Identified and documented 2 production-level defects, preventing potential system failures and strengthening overall project reliability.

MyInsuRec, Client-Relation Management Tool, Developer
Jun 2023 - Aug 2023

- Transformed a legacy system into a modern CRM platform, increasing insurance agents' client tracking and meeting efficiency by 30% through intuitive UI/UX and automated workflows.

CO-CURRICULAR ACTIVITIES

NUS Wikithon, Program Head
Dec 2021 - Jun 2022

- Co-organized a 2-day social impact hakathon that educated 20 over attendees on local underserved needs, resulting in over 5 innovative prototypes solutions for NGOs.

ADDITIONAL INFORMATION

- Languages: English (Spoken and Written), Mandarin (Spoken and Written)
- Interests: Chinese Chess, Sudoku, and Stand-up Comedy