

Ong Han Wei

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EDUCATION

National University of Singapore

- Bachelor of Computing in Computer Science
- Distinction in Software Engineering
- Dean's List for AY23/24 Semester 1

Aug 2021 - May 2025 [Expected]

- GPA: 4.35 / 5.0
- Merit in Artificial Intelligence

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capturing screenshots and building static files, reducing manual effort by 93% (45 mins to 3 mins) and eliminating outdated visuals.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, reduced average scan time by 17%, streamlining 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 report generator using AWS-Lambda achieving 84% reduction in retrieval time and improved insights into historical performance.
- Redesigned document rendering pipeline by diagnosing performance issues and refactoring with Pandoc, leading to 12x improvement in processing.
- Crafted centralised dashboard to amalgamate data across 4 independent and geographically distributed systems resulting in 30% decrease in patient transfer errors.

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.

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, Contributor

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.

Technical Skills

- **Languages:** Python, JavaScript, Java, Golang
- **Web Development:** Next.js, React.js, Angular.js, Streamlit, FastAPI, Flask, Echo
- **AI/ML:** LangChain, OpenAI, Haystack, Ollama, Pytorch, HuggingFace
- **DevOps/Cloud:** Docker, AWS Lambda, GCP Cloud Functions
- **Testing/Docs:** Playwright, Pytest, MkDocs, Pandoc

ADDITIONAL INFORMATION

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