

# Ong Han Wei

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## EDUCATION

### National University of Singapore

*Aug 2021 - May 2025 [Expected]*

- Bachelor of Computing in Computer Science
- [Distinction in Software Engineering](#)
- [Dean's List for AY23/24 Semester 1](#)
- GPA: 4.35 / 5.0
- Relevant Coursework:
  - *Software Engineering Principles and Patterns*
  - *Software Testing*
  - *Big Data System for Data Science*

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## INTERNSHIP & WORK EXPERIENCE

### NCS Pte Ltd, Generative AI Intern

*Jan 2025 - Present*

- Accelerated LLM development by building a FastAPI backend that handles boilerplate (auth, logging) and observability, freeing Generative AI engineers to focus exclusively on pipeline logic while cutting setup time by 40-50%.
- Designed scalable chatbot evaluation framework with dynamic user personas and adaptive test agendas, cutting evaluation time by 90% (from weeks to hours), accelerating QA cycles.
- 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capturing screenshots and building static files, reducing manual effort by 93% (45 mins to 3 mins) and eliminating outdated visuals.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*

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

### Kinexcs Pte Ltd, Software Developer Intern

*May 2023 - Aug 2023*

- Redesigned document rendering pipeline by diagnosing performance issues and integrating Pandoc, leading to 12x improvement in processing.
- Implemented report generator using AWS-Lambda achieving 84% reduction in retrieval time and improved insights into patient's historical performance.
- Crafted centralised dashboard to amalgamate data across 4 independent and geographically distributed systems resulting in 30% decrease in patient transfer errors.

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## PROJECTS

### 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.

### 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.

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## Technical Skills

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

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## ADDITIONAL INFORMATION

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