

# JARED WONG

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[github.com/jaiared](https://github.com/jaiared) • [jaiared.vercel.app](https://jaiared.vercel.app)

Results-driven Junior Fullstack Engineer with a strong grasp of both front-end and back-end development. Adept at problem-solving and passionate about building innovative solutions using tech, with specific experience in developing LLM-integrated platforms.

## WORK EXPERIENCE

### AI and Software Engineer Intern

Oct 2024 - May 2025

#### Pints.ai

Singapore

- Tech lead for an LLM-powered insurance claims management and analysis tool to be used by large insurance companies for automated claim processing.
- Worked extensively on application deployment and CI/CD pipeline using AWS, including Docker and Kubernetes.
- Fine-tuned and deployed custom Small Language Models (SLMs) with open-instruct and LoRa for a 30% increase in output quality.
- Enhanced RAG pipeline for improved document querying and retrieval, increasing chunk retrieval quality by 30%.
- Created an evaluation pipeline to evaluate LLM performance based on the RAGBench framework.
- Built data engineering and processing workflows, including document chunking and preprocessing.
- Developed complex web components and features for an LLM-based research platform.

### Full Stack Software Engineer Intern

May 2024 - Aug 2024

#### Holicay

Vietnam

- Spearheaded an internal data visualisation dashboard to extract actionable business insights, reducing data retrieval time by 90% using aggregate querying.
- Built and maintained web application components, driving significant improvements in platform functionality and features to enhance user experience.
- Engineered a Retrieval Augmented Generation (RAG) system built on a LangChain architecture for personalised travel itinerary generation.

### Software Engineer Intern

Dec 2023 - May 2024

#### VisionPal

Singapore

- Developed key features for an integrated eyecare mobile app across both iOS and Android platforms, achieving top 100 ranking in the App Store's Health & Fitness category.
- Executed a comprehensive revamp of the application UI, delivering a more intuitive and modern design.
- Collaborated closely with cross-functional teams including product manager, optometrists and external developers to translate complex requirements into effective app solutions.

### Research Engineer (Full Stack Development)

Aug 2023 - May 2024

#### NUS School of Computing Healthcare Informatics

Singapore

- Coordinated the development of a health management and wellness mobile app to enhance user health outcomes.
- Managed the development of backend systems to deliver scalable and efficient cloud functions for app performance.
- Partnered with the local healthcare industry to develop a mobile app aimed at supporting individuals to quit smoking.

## EDUCATION

### Bachelor of Computing in Computer Science (Honours)

Aug 2022 - Present

National University of Singapore

- Specialisation in Software Engineering
- NUS Overseas Colleges Vietnam (May – Aug 2024)
- NUS Overseas Colleges Norway (Jul – Dec 2025)

### GCE A-level

Feb 2018 - Nov 2019

Raffles Institution

SKILLS

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**Programming Languages:** Typescript, Javascript, Python, Java  
**Frontend Development:** React, React Native, Next.js, HTML, CSS, Tailwind CSS  
**Backend Development:** Node.js, NestJS, Express, Prisma, Django  
**Database:** PostgreSQL, Firebase, Supabase, MongoDB  
**AI/ML:** OpenAI, LangChain, Open-Instruct (LLMs)  
**Tools & Technologies:** Redis, Docker, Git  
**Cloud:** AWS Certified Cloud Practitioner, AWS Certified Solutions Architect  
**UI/UX Design:** Figma, Balsamiq Wireframes

AWARDS

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- Medical Grand Challenge 2024**

Aug 2024

*Finalist (Top 10 team)*  
Developed a Clinic Decision Support System using machine learning to provide predictive assessments for fetal delivery, improving labour management for obstetricians and midwives.
- Hack For Good Hackathon 2024**

Feb 2024

*Finalist (Top 5 team)*  
Led the development of an integrated form analysis system for a sustainability NGO, utilising AI for enhanced understanding of volunteer feedback and long-term impact assessment, providing timely and actionable insights.
- PSA Codesprint 2023**

Oct 2023

*Commendation Prize (Top 15 team)*  
Headed a team in the development of a machine-learning-powered container distribution system, optimising logistics and distribution processes across terminals and ports to enhance efficiency and reduce operational bottlenecks.
- Full Stack Software Engineer, Google Developer Student Club**

Aug 2023 - May 2024

Implemented a Volunteer Management System (VMS) for an NGO with over 50,000 volunteers, cutting management time by 90%.
- NUS Orbital 2023**

Aug 2023

*Voter's Choice and Artemis (Highest Distinction)*
  - Spearheaded the development of a medication reminder mobile application to enhance medication management for patients with chronic patients.
  - Oversaw all aspects of the project, including front-end and back-end development, design and documentation.
- Lifhack 2023**

May 2023

*1st Runner Up*  
Led the development of a mobile app to address food waste in Singapore by enhancing food recycling efforts, driving impactful environmental change.