

# JARED WONG

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Personal Website: <https://jajared.vercel.app/>

## WORK EXPERIENCE

### Full Stack Software Engineer Intern, Holicay

May 2024 - Present

- Created an internal data visualisation dashboard using MongoDB aggregate queries to derive actionable business insights.
- Built, maintained, optimised and tested web application components on a Next.js frontend and Node.js backend, significantly improving platform functionality, efficiency, and overall system performance.
- Contributed to the software design of new features to support scalable and efficient application development.
- Developed a LLM-based Retrieval Augmented Generation (RAG) system built on the LangChain architecture, using advanced prompt engineering techniques to enhance information retrieval and travel itinerary generation.

### Full Stack Software Engineer, Google Developer Student Club (NUS)

Aug 2023 - Present

- Developed a Volunteer Management System (VMS) web application to improve the registration, management and coordination of volunteers for a local Non-Governmental Organisation under Project #KampungConnect.
- Utilised modern front-end technologies (Next.js) to create responsive and visually appealing user interfaces.
- Involved in the implementation of a scalable backend architecture using modern technologies (PostgreSQL, Nest.Js, Prisma, RESTful API).

### Software Engineer Intern, VisionPal

Dec 2023 – May 2024

- Developed new innovative features for an integrated eyecare mobile application across both iOS and Android platforms.
- Led the comprehensive revamp of the application UI to improve user experience.
- Collaborated closely with cross-functional teams including product manager, optometrists and external developers to translate complex requirements into app solutions.
- Actively involved in user testing sessions, gathering insights to refine features and optimise the user experience for individuals managing their eye health.

### Full Stack Software Engineer, NUS School of Computing Healthcare Informatics

Aug 2023 – May 2024

- Led the development of a health management and wellness mobile application.
- Managed the development of the backend architecture using Firebase Cloud Functions and Node.js to provide scalable and efficient server-side functions.
- Collaborated closely with the local healthcare industry partners to develop a mobile application designed to support individuals in their journey to quit smoking.
- Assisted in the development of a mobile application aimed towards chronic care of individual health requirements.

## EDUCATION

### National University of Singapore

Aug 2022 - Present

Bachelor of Computing (Computer Science)

- Specialisation in Software Engineering and Database Systems
- Minor in Quantitative Finance

### NUS Overseas Colleges (NOC)

May 2024 – Aug 2024

NOC Vietnam (Ho Chi Minh City) AY23/24 Special Term Intake

### Raffles Institution

Feb 2018 - Nov 2019

GCE A-Level

H2 Physics, Chemistry, Mathematics and Economics, H1 General Paper and Project Work

## ACHIEVEMENTS

### PSA Codesprint 2023

October 2023

- Achieved Commendation Prize (Top 15 team)
- Led a team in the successful development of a machine-learning powered container distribution aimed at optimising the logistics and distribution process across terminals and ports

**NUS Orbital 2023****August 2023**

- Received Project Honourable Mention (Voter's Choice) and Artemis (Highest Distinction).
- Led the development of a medication reminder mobile application, incorporating advanced features such as Machine Learning to enhance medication management.
- Managed both front and backend aspects of the application, as well as design and marketing.

**Lifhack 2023****May 2023**

- Achieved 1<sup>st</sup> Runner Up in the NUS Lifhack 2023 hackathon, focused on sustainability.
- Led a team in the development of a full-stack prototype application to address food waste in Singapore through recycling