

JARED WONG

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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 Honourable Mention (Voter's Choice) and Artemis (Highest Distinction) for our project.

- 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 1st 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