**JARED WONG**

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GitHub: <https://github.com/jajared> Personal Website: <https://jajared.vercel.app/>

**work experience**

**Full Stack Software Engineer Intern, HolicayMay 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, VisionPalDec 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 InformaticsAug 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.

**Lifehack 2023** **May 2023**

* Achieved 1st Runner Up in the NUS Lifehack 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