

JARED WONG

M: +65 8644 4433

E: jared.wong@u.nus.edu

LinkedIn: <https://www.linkedin.com/in/jared-wong-4a7a721a4/>

GitHub: <https://github.com/jajared>

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

EDUCATION

National University of Singapore

Aug 2022 - Present

Bachelor of Computing in Computer Science (Honours)

- 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

SKILLS

- **Programming Languages:** Typescript, Javascript, Python, Java
- **Frameworks & Libraries:** React, React Native, Next.js, Tailwind CSS, Flutter
- **Database Management:** Firebase, MongoDB, PostgreSQL, Prisma, Supabase
- **Tools & Technologies:** OpenAI, LangChain, Git
- **UI/UX Design:** Figma, Balsamiq

WORK EXPERIENCE

Full Stack Software Engineer Intern, Holicay

May 2024 – Aug 2024

- Spearheaded and pioneered an internal data visualisation dashboard to extract actionable insights, substantially augmenting decision-making business processes and reducing data retrieval time by 90% using aggregate querying.
- Built, maintained, optimised and tested web application components, driving significant improvements in platform functionality, efficiency, and overall system performance to enhance user satisfaction and platform experience.
- Engineered an LLM-based Retrieval Augmented Generation (RAG) system built on a LangChain architecture, enabling personalised travel itinerary generation and enhancing the relevance and quality of travel recommendations.

Full Stack Software Engineer, NUS Google Developer Student Club

Aug 2023 – Jul 2024

Project #KampungConnect

- Implemented a Volunteer Management System (VMS) for an NGO with over 50,000 volunteers, cutting management time by 90% and significantly improving operational efficiency and volunteer engagement.
- Created responsive and visually appealing user interfaces to increase user interaction and improve user experience.
- Implemented a scalable backend architecture using PostgreSQL, NestJS, Prisma and RESTful APIs, streamlining the management of volunteer and organisational data.

Software Engineer Intern, VisionPal

Dec 2023 – May 2024

- 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.

Full Stack Software Engineer, NUS School of Computing Healthcare Informatics

Aug 2023 – May 2024

- 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.

ACHIEVEMENTS

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.

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.