**JARED WONG**

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**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, HolicayMay 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 ClubAug 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, VisionPalDec 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 InformaticsAug 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.

**Lifehack 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.