

Joshua David Ang

+65 9232 5647 | joshuadavidang@outlook.sg | [linkedin.com/in/joshydavid](https://www.linkedin.com/in/joshydavid) | <https://joshuadavid.dev>

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, SQL, PHP, Swift

Frameworks/Libraries: React.js, Next.js, Vue.js, Express.js, Koa.js, Flask, SwiftUI, Tailwind CSS

Others: PostgreSQL, MySQL, RESTful APIs, GraphQL, XHTML, CSS, Git, Docker, Amazon Web Services

EDUCATION

Singapore Management University

Bachelor of Science, Information Systems

Expected Graduation: May 2026

WORK EXPERIENCE

Software Engineer Intern

GovTech Singapore (Government Digital Services)

Jan 2024 - Jul 2024

- Led the back-end development for a greenfield project by designing and implementing more than **18 API endpoints** to serve over **34,000** users.
- Led the front-end development for [Sparks](#), resulting in **25%** reduction in development time and successfully launching the project within **2 months**.
- Developed user-centric features for [CrowdTaskSG](#), leading to **20%** increase in crowd-sourced data collection.
- Optimized performance through memoization by reducing unnecessary re-renders and caching computationally expensive components, leading to **30%** increase in page load times.
- Ensured codebase reliability and stability through writing comprehensive test cases, achieving over **90%** code coverage.
- **Technologies:** TypeScript, Next.js, Tailwind CSS, Koa.js, PostgreSQL, TypeORM, Docker

Software Engineer Intern

Pigeonhole Live (PigeonLab)

Jan 2023 - Mar 2023

- Developed responsive webpages to ensure a seamless user experience across all devices and screen sizes, leading to **30%** increase in mobile engagement and **25%** boost in overall user satisfaction.
- Wrote Jest unit tests to ensure code quality, reducing bugs and technical debts by **40%** through early issue identification in the development cycle.
- **Technologies:** Vue.js, JavaScript, Jest, Docker, GitLab

Software Engineer Intern

Blockchain Solutions (BSG)

May 2022 - Jul 2022

- Spearheaded front-end development of a NFT marketplace.
- Built reusable components and customised CSS libraries to enhance the efficiency and scalability of the platform.
- Collaborated with UI/UX designer to ensure the feasibility of technical designs.
- **Technologies:** React.js, Next.js, Web3.js, Tailwind CSS, Firebase

PROJECTS

Scan!

Web App Development — [FE GitHub](#), [BE GitHub](#)

May 2024 - June 2024

- GovTech Hackathon – Developed a MVP using OCR technologies to identify healthier purchases from receipts, enabling HPB (Health Promotion Board) to reward individuals for making healthier choices regardless of where they shop.
- Pitched and presented solution to a panel of judges from GovTech & Health Promotion Board (HPB), with HPB expressing significant interest in adopting the solution.
- **Technologies:** TypeScript, Next.js, Tailwind CSS, Nest.js, Vector Database

Project Sayless

Web App Development — [FE GitHub](#), [BE GitHub](#)

Aug 2023 - Nov 2023

- Developed a gamified full-stack web app facilitating food sharing, integrating receipt uploads for inventory management and quest completion for voucher rewards. (**Grade: A+**)
- **Technologies:** Vue.js, Express.js, MongoDB, Tailwind CSS, Firebase Authentication, OCR API