

Joshua David Ang

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TECHNICAL SKILLS

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

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

Others: Data Structures & Algorithms, PostgreSQL, MySQL, RESTful APIs, GraphQL, HTML, 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 **back-end development** for a greenfield project using **object-oriented design principles** to implement over **10 API endpoints** serving **34,000+ users**.
- Led **front-end development** for an internal tool [Sparks](#), reducing development time by **25%** and launching the project in **2 months**.
- Developed user-centric features for a consumer product [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%** decrease in page load times.
- Ensured codebase reliability and stability by writing comprehensive test cases, achieving over **90%** code coverage.
- **Technologies:** TypeScript, Next.js, Tailwind CSS, Koa.js, PostgreSQL, TypeORM, Docker, Jest

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

Project Scan!

Web Application (GovTech Hackathon) — [FE GitHub](#), [BE GitHub](#)

May 2024 - June 2024

- Developed a minimal viable product using **Optical Character Recognition (OCR)** to identify healthier purchases from receipts, enabling Health Promotion Board (HPB) to reward individuals for making healthier choices.
- Pitched and presented solution to a panel of judges from GovTech & HPB, with HPB expressing significant interest in adopting the solution.
- **Technologies:** TypeScript, Next.js, Tailwind CSS, Nest.js, Vector Database

Project Sayless

Web Application (School Project) — [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