

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, React Native, Flask, SwiftUI, Tailwind CSS

Others: PostgreSQL, MySQL, REST API, 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 - Present

- Enhanced [CrowdTaskSG](#) with user-centric features, driving a **20%** increase in crowd-sourced data collection.
- Optimized performance by **30%** through memoization, reducing unnecessary re-renders and caching computationally expensive components.
- Ensured codebase reliability and stability by writing comprehensive unit tests, achieving over **90%** code coverage.
- Spearheaded front-end development for [Sparks](#), achieving **25%** faster development time with scalable codebase and robust coding conventions.
- Collaborated with a team of 2 engineers, PM, and UX designer to successfully launch Sparks within **3 months**.
- Technologies:** TypeScript, Next.js, Tailwind CSS, Express.js, PostgreSQL, TypeORM, OpenAI

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

LlamaMind

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

May 2024 - Present

- A Meta Llama 3 Model Project (Work-in-Progress)
- Technologies:** Meta Llama 3 Model, Next.js, TypeScript, Chakra UI, Flask, PostgreSQL

BookLah!

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

Jan 2024 - Apr 2024

- Spearheaded the development of a full-stack concert booking web application, utilising microservice architecture.
- Led the development team to achieve **20%** reduction in page load times, enhancing user experience.
- Technologies:** Next.js, Flask, Express.js, Tailwind CSS, PostgreSQL, Kong API Gateway, Docker

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