

# Joshua David Ang

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## TECHNICAL SKILLS

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

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

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

## EDUCATION

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### Singapore Management University

*Bachelor of Science, Information Systems*

*Expected Graduation: May 2026*

## WORK EXPERIENCE

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### 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 **10 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, 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

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### BookLah!

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

*Jan 2024 - Apr 2024*

- Led the development for a full-stack concert booking web app utilising Microservices, developed responsive and seamless user interface with other student software engineers. (**Grade: A**)
- **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