

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, Koa.js, Node.js, Express.js, React Native, Flask, SwiftUI, Tailwind CSS, TypeORM

APIs: REST API, GraphQL

Databases: PostgreSQL, mySQL

Others: XHTML, CSS, Git, Docker, Amazon Web Services

EDUCATION

Singapore Management University

Bachelor of Science, Information Systems

Aug 2022 - Present

- *Relevant Coursework:* Data Structures & Algorithms, Object-Oriented Programming, Enterprise Solution Development, Web Application Development I & II, Data Management, Computational Thinking

WORK EXPERIENCE

Software Engineer Intern

GovTech Singapore (Government Digital Services)

Jan 2024 - Present

- Contributed to the full-stack development of 2 projects, [CrowdTaskSG](#) and [Sparks](#).
- Developed features for CrowdTaskSG's Great Budget Meal Hunt campaign, significantly improving user experience which resulted in **20%** increase in collected crowd-sourced data.
- Implemented memoization to reduce unnecessary re-renders and cache computationally expensive components, improving performance by **30%**.
- Wrote unit tests to validate functionalities, achieving a code coverage of over **90%**, ensuring the reliability and stability of the codebase.
- Led the front-end development for [Sparks](#) by establishing a scalable and maintainable codebase with robust coding conventions, leading to **25%** increase in development speed.
- Collaborated with 2 experienced software engineers, PM and UX designer to launch Sparks within a **3 month** timeline.
- **Technologies:** TypeScript, Next.js, Tailwind CSS, Express.js, Koa.js, PostgreSQL, TypeORM, AWS, 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.
- Collaborated with cross-functional teams to drive project success, delivering features that exceeded expectations and contributed to the project goals.
- Wrote unit tests using Jest to ensure code quality and to identify potential issues early in the development cycle leading to **40%** reduction in bugs and technical debts.
- **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.
- Developed high-quality, production-ready code and maintained a clean and organised codebase.
- 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, Flask, Express.js, Tailwind CSS, Shadcn UI, PostgreSQL

BookLah! (School Project)

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 deliver high-performance, user-centric web application, with robust back-end and intuitive front-end.
- **Technologies:** Next.js, TypeScript, Flask, Express.js, Tailwind CSS, Shadcn UI, PostgreSQL, Kong Gateway, Docker

ShortenSG

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

Jan 2024 - Jan 2024

- Full-stack URL shortener web app, designed to transform long URLs into neat and shareable links.
- **Technologies:** Next.js, TypeScript, Tailwind CSS, Shadcn UI, Express.js, TypeORM, PostgreSQL

Coding Portfolio

Web App Development — [GitHub](#), [Demo](#)

Dec 2023 - Jan 2024

- Redesigned, redeveloped and redeployed a minimalist responsive personal website.
- **Technologies:** Next.js, TypeScript, Tailwind CSS, Shadcn UI, Supabase

Project Sayless (School Project)

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

Aug 2023 - Nov 2023

- Developed a full-stack gamified web app connecting people to share excess food. Upload receipts to add items to inventory or complete quests to earn vouchers. (Grade: A+)
- **Technologies:** Vue.js, Express.js, MongoDB, Firebase Authentication, OCR API