Joshua David Ang

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TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, SQL, PHP, Swift
Libraries/Frameworks: React.js, Next.js, Vue.js, Koa.js, Node.js, Express.js, React Native, Flask, SwiftUI, Tailwind CSS, TypeORM
Others: XHTML, CSS, Relational Database, PostgreSQL, mySQL, Git, Docker, AWS

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

Singapore Polytechnic

Diploma in Business Information Technology *Apr 2017 - Feb 2020*

- *Relevant Coursework:* Mobile Application Development I & II, Web Application Development I & II, Programming for Data Science

WORK EXPERIENCE

Software Engineer Intern

GovTech Singapore (Government Digital Services) *Jan 2024 - Present*

- Contributed to the full-stack development of CrowdTaskSG and Sparks.
- Developed features for CrowdTaskSG's Great Budget Meal Hunt campaign to improve user experience, resulting in an increased collected number of crowdsoured data by 20%.
- Initialised the front-end repository for Sparks and introduced robust coding conventions to ensure maintainable, readable and scalable code.
- Led the front-end development for Sparks, translating design into pixel-perfect components.
- Collaborated with 2 experienced software engineers 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 different devices and screen sizes.
- Worked in a cross-functional team to understand requirements and develop features that align with the project goals.
- Developed comprehensive unit test cases using Jest to ensure code quality and identify potential issues early in the development cycle.
- **Technologies: Vue.js, 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   *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!
Web App Development   *Jan 2024 - Apr 2024*
- Developed a full-stack concert booking web application utilising Microservice architecture.
- https://github.com/joshuadavidang/BookLah
- https://github.com/joshuadavidang/BookLah-Backend
- **Technologies: Next.js, TypeScript, Flask, Express.js, Tailwind CSS, Shadcn UI, PostgreSQL, Kong Gateway, Docker**

ShortenSG
Web App Development   *Jan 2024 - Jan 2024*
- Full-stack URL shortener web app, designed to transform long URLs into neat and shareable links.
- https://github.com/joshuadavidang/ShortenSG
- https://github.com/joshuadavidang/ShortenSG-Backend
- **Technologies: Next.js, TypeScript, Tailwind CSS, Shadcn UI, Express.js, TypeORM, PostgreSQL**

Coding Portfolio 2.0
Web App Development   *Dec 2023 - Jan 2024*
- Redesigned, redeveloped and redeployed a minimalist responsive personal website.
- https://joshuadavid.dev
- https://github.com/joshuadavidang/joshuadavid
- **Technologies: Next.js, TypeScript, Tailwind CSS, Shadcn UI, Supabase**

Project Sayless
Web App Development   *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.
- https://github.com/SMU-IS/SayLess
- **Technologies: Vue.js, Express.js, MongoDB, Firebase Authentication, OCR API**

OTHERS

SMU .HEAP 2024
Software Engineering Mentor   *May 2024 - Present*
- Mentored a group of students in developing a full-stack web application using modern web technologies through a 8-week mentorship program.
- Guided the team in adopting best practices such as writing clean and scalable code, ensuring code quality, maintainability and reusability to reduce technical debts.