# Joshua David Ang

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# **EDUCATION**

## Singapore Management University

Bachelor of Science, Information Systems

Aug 2022 - May 2026 (Expected)

#### Work Experience

## GovTech Singapore

Software Engineer Intern

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, leading to 30% increase in user engagement.
- Led **front-end development** for <u>Sparks</u>, a tool designed for public officers, reducing development time by **25**% and launching the product within **2 months**.
- Developed 5 user-centric features for a consumer product <u>CrowdTaskSG</u>, leading to 20% increase in crowd-sourced data collection.
- Optimized application performance through advanced memoization techniques, reducing unnecessary re-renders and
  caching computationally expensive components which led to 30% decrease in page load times.
- Ensured codebase reliability and stability through the meticulous creation of comprehensive test cases, resulting in over 90% code coverage.
- Technologies: TypeScript, Next.js, Tailwind CSS, Koa.js, PostgreSQL, TypeORM, Docker, Jest

# Pigeonhole Live (PigeonLab)

Software Engineer Intern

Jan 2023 - Mar 2023

- Developed responsive webpages to ensure a seamless user experience across all devices and screen sizes which led to 30% increase in mobile engagement and 25% boost in overall user satisfaction.
- Wrote Jest unit tests to ensure robust software code quality, reducing bugs and technical debts by 40% through early issues identification and resolution in the development cycle.
- Technologies: Vue.js, JavaScript, Jest, Docker, GitLab

#### Blockchain Solutions (BSG)

Software Engineer Intern

May 2022 - Jul 2022

- Spearheaded front-end development of a NFT marketplace which led to 30% increase in user engagement and 20% increase in new user sign-ups.
- Developed more than 10 reusable components to ensure consistency across the application, leading to 30% decrease in development time.
- Collaborated with UI/UX designer to validate and refine technical designs, ensuring alignment with design vision.
- Technologies: React.js, Next.js, Web3.js, Tailwind CSS, Firebase

#### Projects

### Project Scan!

Full Stack 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, empowering Health Promotion Board (HPB) to offer incentives for healthier decision-making.
- Pitched and presented solution to judges from GovTech and HPB, with HPB showing strong interest in adoption.
- Technologies: TypeScript, Next.js, Tailwind CSS, Nest.js, Vector Database

#### **Project Sayless**

Full Stack Web Application (School Project) — FE GitHub, BE GitHub

Aug 2023 - Nov 2023

- Led a team of 3 members to develop a gamified full-stack web app facilitating food sharing, integrating receipt uploads for inventory management and quest completion for voucher rewards.
- Technologies: Vue.js, Express.js, MongoDB, Tailwind CSS, Firebase Authentication

## TECHNICAL SKILLS

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

Frameworks/Libraries: React.js, Next.js, Vue.js, Node.js, Express.js, Koa.js, Flask, Spring Boot, Tailwind CSS Others: Data Structures & Algorithms, Object-Oriented Programming, PostgreSQL, MySQL, RESTful APIs, GraphQL, HTML, CSS, Git, Docker, Amazon Web Services