

## Summary

Versatile and results-driven Software Engineer with 6 years in full-stack and frontend development, specializing in scalable, high-performance applications and modern UI/UX. Passionate about making AI accessible and driving workflow automation. Skilled in leading cross-functional teams, architecting robust solutions, and elevating code quality through mentorship and best practices. Recognized as a proactive problem solver who leads by example, listens to team input, and delivers effective solutions. Recently completed all requirements for a Master of Data Science at the University of Melbourne, with a focus on NLP and applied AI. Committed to continuous learning, CLI mastery, and clear documentation to streamline collaboration.

## Professional Experience

### Full Stack Developer, WISE Employment, Melbourne, Australia

Nov 2023 - Present

- **Architected** and led the transformation of a legacy Vue 2 application into a modern **Vue 3 + Vite** structure, significantly improving maintainability, performance, and scalability.
- **Designed and implemented** a custom **headless design system** with reusable components and UX best practices, enhancing developer productivity and consistency across the UI.
- **Delivered** a high-impact internal dashboard, improving visibility and reducing claim processing delays, projected to increase claims processed by 400+ monthly and boost revenue by ~\$175k.
- **Integrated** secure data pipelines with **AWS Blob Storage**, schema design, and Java-based decryption to ensure secure and efficient data handling.
- **Enhanced** CI/CD workflows using GitLab, Docker, and OpenShift, introducing automated testing and deployment pipelines for faster release cycles.
- **Collaborated** across frontend, backend (Java, Golang), and DevOps teams to deliver robust features with scalable architecture.
- **Provided** high-quality code reviews and mentored peers to raise team engineering standards.
- **Demonstrated** strong leadership and communication by listening to team suggestions, giving actionable feedback, and driving consensus to solve complex problems efficiently.

#### Technical Skills:

VueJS JavaScript TypeScript Java Golang Vite Headless UI Tailwind CSS Jest GraphQL GitLab Docker Azure RedHat OCP Figma  
Agile Design Systems UI/UX Design Accessibility Code Reviews Architecture

### Software Engineer, IPIC Pty Ltd, George & Matilda, Melbourne, Australia

Sep 2021 - Nov 2023

- **Built** a finance investigation portal in AngularJS, reducing unresolved issues by **80%** and cutting resolution time from 8 months to 3 weeks.
- **Delivered** a React-based clinical appointment system and created a **custom design system** with Tailwind CSS, significantly speeding up UI development.
- **Worked across** frontend and backend, including GraphQL APIs and Prisma/tRPC stack, to implement robust and scalable solutions.
- **Managed** CI/CD with Bitbucket Pipelines and Docker, improving deployment reliability.
- **Collaborated** closely with finance, product, and design stakeholders to ensure solutions met real-world business needs.

#### Technical Skills:

ReactJS NextJS AngularJS TypeScript GraphQL Tailwind CSS Bootstrap Prisma tRPC Jest Storybook Bitbucket Pipelines Docker  
Figma Agile Design System UI/UX Design API Design

### Engineering Intern, Rose Plastic, Melbourne, Australia

Sep 2018 – Sep 2020

- **Supported** the tech lead in maintaining internal systems and performing data analysis.
- **Conducted** market research and requirement gathering to support product decisions.

## Technical Skills

- 🧑 **Programming Languages:** JavaScript, TypeScript, Java, Golang, Python, SQL, HTML/CSS/SASS/LESS, R, C, MATLAB, Swift
- 📦 **Frameworks & Libraries:** ReactJS, NextJS, VueJS, AngularJS, NodeJS, ExpressJS, Flask, Django, Spring Boot, Tailwind CSS, Bootstrap, Jest, Vitest, Cypress, Storybook
- 🛠️ **DevOps & Tools:** Docker, Git, GitLab, GitHub, Bitbucket, Jenkins, GitHub Actions, OpenShift, Ansible, CLI Mastery
- 🗄️ **Databases:** PostgreSQL, MySQL, CouchDB, MongoDB, Firebase, Core Data
- ☁️ **Cloud Platforms:** AWS, Azure, Render, Vercel
- 🔧 **Testing & Automation:** Jest, Vitest, Cypress, Postman, Unit Testing, Integration Testing
- 🌐 **Other Skills:** RESTful APIs, GraphQL, Microservices, Monorepo, Agile Scrum, Design Patterns, UI/UX Design, Figma, JWT Auth, Documentation, AI-Powered Tools
- 🖥️ **Operating Systems:** macOS, Windows, Linux, Ubuntu

Projects

Legal Policy Project2023

- Built an AI-based legal policy generator using Python, OpenAI, and NLP, reducing documentation time and increasing consistency.

PythonOpenAI APINLPStreamlitDockerRenderGit

Wind Turbine Anomaly Detection Project | Master of Data Science2024

- Developed and implemented state-of-the-art machine learning methods for anomaly detection in wind turbine mechanical systems, including literature review, data preprocessing, and modular Python solutions for time-series sensor data.

Cluster Cloud Computing Data Analytics Project | University of Melbourne2023

- Led the development of a data visualization dashboard for real-time social media sentiment analysis, managing end-to-end deployment.

ReactJSFlaskPythonTypeScriptCouchDBDockerNLPTailwind CSSGitHubAnsible

Keyboard Commercial Website2022

- Created a commercial platform with Stripe integration and CMS-based content management.

ReactJSNextJSTailwind CSSStripe APITanStack QuerySanity CMSVercel

BARD AI Automatic API Deployment | Monash University2021

- Developed a frontend interface for dynamically creating and deploying backend APIs with user-defined configurations.

ReactJSDjangoFlaskPostgreSQLGitHub ActionsJWTJenkins

Comfort Lens iOS App | Monash University2021

- Built an iOS app with real-time location and reminders for lens management.

SwiftFirebaseCore DataGoogle Places APiGitHubFigma

Education

Master of Data Science | The University of MelbourneMar 2022 - Expected Aug 2025  
focused on NLP, ML, and applied AI.

Deep interest in leveraging AI and language models to improve usability, automation, and developer workflows. Hands-on experience with time-series anomaly detection, scalable data pipelines, and applying advanced ML techniques to real-world engineering datasets.

Bachelor of Software Engineering (Honours) | Monash UniversityMar 2018 - Oct 2021

Published research on accessible software design at IEEE COMPSAC 2022: "A Curated Personas and Design Guidelines Tool for Better Supporting Diverse End-users."

Extra-Curricular Activities

Member, Chinese Association of Professionals and Scholars Australia (CAPS)Nov 2022 - Present

Participant, 2023 Global Game JamMar 2023

Achieved Challenge Accomplishment Certificate in a 3-day game development hackathon.

Competitor, NexStar Melbourne-Nanjing Sprint Pitch CompetitionApr 2022

Awarded Second Prize and Startup's Choice Award.

Additional Information

Passions: Building tools that make AI more usable in real-world workflows. Avid reader on AI theory, language models, and software architecture.

Languages: English (Bilingual Proficiency), Mandarin Chinese (Native), Shanghainese