Alice Zhang

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GitHub
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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 Project
2023

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

`Python` `OpenAI API` `NLP` `Streamlit` `Docker` `Render` `Git`

Cluster Cloud Computing Data Analytics Project | University of Melbourne
2023

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

`ReactJS` `Flask` `Python` `TypeScript` `CouchDB` `Docker` `NLP` `Tailwind CSS` `GitHub` `Ansible`

Keyboard Commercial Website
2022

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

`ReactJS` `NextJS` `Tailwind CSS` `Stripe API` `TanStack Query` `Sanity CMS` `Vercel`

BARD AI Automatic API Deployment | Monash University
2021

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

`ReactJS` `Django` `Flask` `PostgreSQL` `GitHub Actions` `JWT` `Jenkins`

Comfort Lens iOS App | Monash University
2021

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

`Swift` `Firebase` `Core Data` `Google Places API` `GitHub` `Figma`

Education

Master of Data Science | The University of Melbourne
Mar 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.

Bachelor of Software Engineering (Honours) | Monash University
Mar 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 Jam
Mar 2023

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

Competitor, NexStar Melbourne-Nanjing Sprint Pitch Competition
Apr 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