Jeff Zhang
Software Engineer

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💼 GitHub↗

○ LinkedIn↗

SUMMARY

- Full Stack Software Engineer with strong foundation in Node.js, Python, SQL, backend development, and hands-on experience building AI integrated application in structured Agile teams. Passionate about writing clean, maintainable code and learning enterprise technologies in a product-focused environment

SKILLS

Languages:	**Python**, C#, Java, JavaScript
Frontend:	**React**, HTML5, CSS3
Backend:	**FastAPI**, **Node.js (Express)**
Databases:	PostgreSQL, SQL Server, MongoDB
Cloud & DevOps:	AWS, Azure, Docker, GitHub Actions, CI/CD pipelines

EXPERIENCE

Flowing Bee - Software Engineer   Melbourne   Nov 2024 - Feb 2025

- Developed admin panel with full CRUD for user and organisation management(FastAPI, **React**)
- Designed and implemented OIDC authentication in **FastAPI** to support secure user login
- Developed role-based authorization ensuring users only access permitted resources
- Applied **TDD** with unit and integration tests, achieving 90%+ coverage for security modules
- Participated in **code reviews** and **Agile sprints**, maintaining technical documentation in Confluence
- Designed multi-agent workflow architecture with automated quality checks and smart routing to prevent errors
- Built an **AI automation system** using Azure OpenAI, reducing processing time from 30 days to 24 hours

PROJECTS

Profile – Personal Web App 🔗 Live APP | GitHub

- Designed, developed, and deployed a production-ready full-stack portfolio using Next.js and Spring Boot on AWS EC2

Glucope - Diabetic Patient Management Web App 🔗 GitHub

- Built a web-based patient management application using **Node.js (Express)**, deployed to **Azure** and **AWS**
- Designed backend logic and **database schemas** for patient and clinician data
- Implemented RESTful APIs with Express to support secure CRUD operations
- Applied role-based access control to manage different user permissions

Microservices – Shopping backed System 🔗 GitHub

- Developed backend services using **.NET Core** to support core e-commerce workflows
- Designed **RESTful APIs** and integrated a relational database using **PostgreSQL**
- Implemented basic **inter-service communication** and backend logic for order processing

VOLUNTEER

Dive Master & Trip Leader - MUUC   Melbourne   Oct 2023 - Dec 2025

- Led dive trips for up to 10 participants, supporting safety, logistics, and real-time decisions in high-pressure environments

EDUCATION

The University of Melbourne - Master of Information Technology (Artificial Intelligence)	Jul 2023 - Dec 2025
The University of Melbourne - Bachelor of Science (Computing and Software Systems)	Feb 2021 - Jun 2023