

Zetphy Deng

Software Engineer

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Summary

Full-Stack Software Engineer experienced in building user-facing features with **Svelte/React** and backend services with **Node.js/Express**, **TypeScript**, and **PostgreSQL**. Comfortable with API development, database integration, and debugging across the full development lifecycle. Exposure to **Docker**, **CI/CD** (GitHub Actions), and **AWS** deployments, with a focus on clean and maintainable code.

Professional Experience

Software Engineer Intern (Full-Stack)

IMTG

Sydney, Australia

Jan 2026 – Present

- Built a full-stack web platform using **Svelte + TypeScript** and **Node.js/Express** with **PostgreSQL**, demonstrating end-to-end ownership of feature delivery.
- Designed and integrated **RESTful APIs** and backend services to support application logic, applying structured problem-solving skills.
- Containerised services using **Docker** and supported automated **CI/CD pipelines**, ensuring reliable deployment processes.
- Worked within an **Agile** team using **Git**-based workflows, maintaining effective cross-functional collaboration.

Front-End Developer Intern

JD.com

Remote

Nov 2025 – Jan 2025

- Developed enterprise web interfaces using **React (Next.js)** and **TypeScript**, delivering structured and maintainable UI components.
- Implemented data-driven components using structured **JSON datasets**, simulating API-based workflows during frontend development.
- Built interactive dashboards using **D3.js** and **Chart.js**, supporting analytical visualisation features.
- Optimised rendering performance for large datasets and collaborated in **Agile** sprint cycles using **Git**-based workflows.

Project Experience

Property Management System (RentWeb)

Jun 2025 – Nov 2025

- Designed and implemented a secure **Role-Based Access Control (RBAC)** system using **JWT** and custom middleware, ensuring strict data isolation between Tenants and Agents in a multi-tenant environment.
- Engineered the full lifecycle work-order module utilizing **WebSockets (Socket.io)** for bi-directional communication, enabling instant status updates and real-time chat functionality without page reloads.
- Developed **15+ RESTful APIs** using **Node.js/Express**. Implemented **Prisma Transactions** to ensure **ACID compliance** during complex booking workflows.
- Optimized high-volume database queries by implementing indexing strategies and offset-based pagination in **PostgreSQL**, achieving consistent **sub-100ms** response times for property listings.
- Orchestrated a secure deployment pipeline utilizing **AWS EC2** for backend services and **AWS S3 + CloudFront** for static asset delivery. Implemented **GitHub Actions** for continuous integration, enforcing code quality checks (ESLint/Prettier) and automated testing prior to production release.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python

Frontend: React, Next.js, Svelte, HTML5, CSS3

Backend: Node.js, Express.js, RESTful APIs

Database: PostgreSQL, Supabase

DevOps & CI/CD: Docker, GitHub Actions, Vercel

Cloud: AWS EC2, AWS S3, CloudFront

Tools: Git, GitHub, Postman, Jira

Education

University of New South Wales (UNSW)

Master of Information Technology

Sydney, Australia

2023 – 2025