Zoey Vo, *she/they*
Software Engineer

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Summary

I am experienced in front- and back-end web development, managing database systems, and using LLM for data-driven metric analysis. My focus is on using systems design and scalable web applications to create impactful, community-centered solutions.

Education

University of California Davis   June 2022 - August 2025

Bachelor of Science, Computer Science and Engineering

GPA: 3.7 | Dean's List: Fall 2022, Winter 2023, Winter 2024

Experience

DevOps Intern, *OneSignal*   May 2023 - September 2023

- ❖ Implemented Python scripts to validate and reconcile record counts across PostgreSQL database instances, improving data integrity monitoring.
- ❖ Created custom Grafana dashboards to visualize key database metrics, enabling data-driven analysis through Prometheus-based monitoring.
- ❖ Fostered collaborative relationships with cross-functional team members and management while maintaining effective communication.

Projects

UC Davis Library: Expert Mapping Interface (EMI)

- ❖ **Role**: Team Manager & Back-End Developer
- ❖ **Tech Stack**: React.js, Node.js, JavaScript. PostGIS, Redis, Ollama, Leaflet.js
- ❖ **Contribution**: Led the design and implementation of a scalable geospatial platform processing 170,000+ entries to visualize UC Davis research, grants, and experts by location. Enhanced research discovery by replacing static, keyword-based searches with a dynamic, interactive map for intuitive expert exploration.

Coursework

- ❖ Computer Architecture
- ❖ Operating Systems
- ❖ Embedded Systems
- ❖ Data Structures
- ❖ Algorithm Design and Analysis
- ❖ Computer Networks
- ❖ Database Systems
- ❖ Software Engineering
- ❖ Web Programming

Skills

- ❖ **Programming Languages:** C++, Python, Java, Haskell, JavaScript, TypeScript
- ❖ **Web Development:** Node.js, React.js, Svelte, HTML5, CSS3, SASS
- ❖ **Databases & Backend:** PostgreSQL(PostGIS), Redis, Flask
- ❖ **DevOps & Infrastructure:** Docker, Prometheus, Grafana
- ❖ **Soft Skills:** Leadership, Team Collaboration, Proactive mindset, Clear communication