Eric Zhang

Software Engineer | Full-Stack & Applied AI
ez060207@cs.washington.edu

Education

University of Washington, B.S. in Computer Science; Minor in Business; GPA: 3.89 - Seattle, WA Sep 2024 - Jun 2028

Experience

Software Engineering Intern, Shanghai Lingang Digital Infrastructure Investment Co., Ltd. Jul 2026 - Sep 2026

- Engineered an applied-AI housing search system that converts natural-language requests into structured requirements and retrieves matching properties through LLM workflows, Java/Spring Boot services, MySQL, and REST APIs.
- Developed deterministic Java/Spring Boot search logic across housing, parking, transit, and amenity requirements, translating AI-generated criteria into testable backend predicates and structured results.
- Mapped product requirements to a MySQL data model spanning approximately 13K housing and 1.6K parking records, supporting migration from a static JSON prototype to database-backed search.
- Built FastGPT/Dify workflows for semantic requirement extraction and structured JSON generation, integrating AI interpretation with authoritative backend retrieval and an HTML/CSS/JavaScript interface.

Mathematics, Science & Computer Science Tutor, Private Tutor Sep 2024 - Present

- Tutored 10+ middle and high school students using tailored explanations, practice problems, and study plans; several improved by one or more letter grades.

Projects

Personal Fitness Trainer

Next.js, React, TypeScript, Prisma, SQLite, Tailwind CSS

- Built a full-stack fitness coaching application that converts daily weight, nutrition, sleep, recovery, and training data into personalized multi-day coaching recommendations.
- Architected a layered system separating deterministic fitness logic from React, Prisma persistence, and AI-assisted natural-language reporting, with user-confirmed structured outputs and effective-dated historical state.
- Developed comprehensive Vitest and Playwright test coverage for multi-day workflows, AI-assisted reporting, historical corrections, safety logic, and edge cases.

Mini Git

Java

- Built a Git-inspired commit-history repository in Java with linked commits, newest-first history, ID search, and commit removal.
- Implemented timestamp-ordered synchronization between repositories and wrote four JUnit tests covering empty, front, middle, and end merge cases.

Spam Classifier

Java

- Implemented a Java decision-tree text classifier with incremental word-frequency-based splits, recursive threshold classification, and preorder model save/load.

Skills

Languages: Java, C, Python, TypeScript, JavaScript, SQL, HTML/CSS

Frameworks: Spring Boot, Next.js, React, FastAPI, Tailwind CSS

Data & AI: MySQL, Prisma, SQLite, FastGPT, Dify, LLM APIs

Tools: Linux, Git, Docker, GDB, Vitest, Playwright, REST APIs