Khoi Ly

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EDUCATION

San Jose State University   San Jose, CA
Bachelor of Science in Software Engineering (GPA: 3.9/4.0)   *Aug. 2021 - May 2024*

- Dean's List & President's List

EXPERIENCE

Software Engineering Fellow   July 2024 – Sept 2024
Headstarter   *Remote*

- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment.
- Engineered an automated web scraper for Rate My Professor data, integrating with Pinecone. Implemented a RAG pipeline using LangChain and OpenAI GPT-4 for accurate, timely query responses.
- Advanced to finalist round in a Hackathon as a full-stack developer, creating an AI-powered complaint detection web app. Demonstrated rapid prototyping and effective team collaboration under tight deadlines.

Part-time Technician/Programmer   June 2020 – July 2023
X-Scan Imaging Corporation   *San Jose, CA*

- Developed Python Tkinter applications to automate data validation for the production team, integrating Google Sheets API for specifications. Streamlined comparison of test results with criteria, saving 30 minutes daily and enhancing workflow efficiency.
- Collected and analyzed data from sensor boards through rigorous testing to ensure the absence of dead pixels or dead chips.

Teaching Assistant   Aug 2019 – Dec 2019
Santa Rosa Junior College   *Santa Rosa, CA*

- Evaluated, graded, and recorded students' classwork, assignments, and in-class exercises for a pre-algebra class of 29 students.
- Tutored multiple groups of 3–5 students with pre-algebra homework problems, test questions, and review materials.

PROJECTS

DevPolish (Side Project) | *Next.js, MongoDB, Shadcn/ui, OpenAI* − GitHub | Live   Sept 2024 – Present

- Designed and implemented Resume Review, Cover Letter Generator, and Profile Showcase features to streamline the job search process and improve developers' professional profiles.
- Developed a Portfolio Generator that dynamically builds an editable, downloadable, and deployable HTML portfolio based on user-provided resume data.

SpellTrain II | *FastAPI, SQLAlchemy, React Native, OpenAI, Gemini API* − GitHub   Aug 2023 – May 2024

- Collaborated with a Google engineer to develop an API for creating practice word lists to help children improve vocabulary and spelling.
- Created a word game suite with various game types (spelling, origin quizzes, hangman, etc.) by implementing algorithms with stack data structures, enhancing user engagement through diverse linguistic puzzles.
- Integrated external AI services like OpenAI and Google Gemini API to generate word lists based on users' input topics.
- Achieved 90% test coverage through comprehensive unit tests, emphasizing reliability and code quality.

TECHNICAL SKILLS

AI & Data: Pinecone, RAG, Langchain
Languages: Python, JavaScript, TypeScript, Java, PHP, HTML, CSS
Databases: PostgreSQL, MySQL, MongoDB, Firebase, SQLAlchemy
Frameworks & Libraries: React, Next.js, Node.js, Flask, FastAPI, Django, Bootstrap, SASS
Developer Tools: Git, Docker, Figma, Audacity, Vercel, Render