

Khoi Ly

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EDUCATION

San Jose State University

Bachelor of Science in Software Engineering (GPA: 3.9/4.0)

San Jose, CA

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

SpellTrain II | *FastAPI, SQLAlchemy, React Native, OpenAI, Gemini API* – [Link](#)

May 2018 – May 2020

- 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.

Job Seeker | *Flask-RESTful, SQLAlchemy, ReactJS* – [Link](#)

Aug 2022 - Nov 2022

- Co-developed a job portal with Python and Flask, enabling job search, applications, and password recovery, in collaboration with a 4-member team.
- Enhanced security by implementing bcrypt password hashing, JWT-based authentication, and email-based password recovery.
- Optimized job search and application tracking by designing a relational database with SQLAlchemy ORM, demonstrating expertise in database management and queries.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, PHP, HTML, CSS

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Frameworks & Libraries: React, Next.js, Node.js, Flask, FastAPI, Django, Bootstrap, SASS

AI & Data: Pinecone, RAG, Langchain, SQLAlchemy

Developer Tools: Git, Docker, Figma, Audacity, Vercel, Render