

# KHOI LY

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## EDUCATION

**Bachelor of Science in Software Engineering**, San Jose State University — GPA: 3.9/4.0

Aug 2021 - May 2024

*Relevant Coursework:* Data Structures and Algorithms, Database Systems, Software Engineering Principles, Operating Systems, and Human-Computer Interaction (HCI).

- Dean's List & President's List

**Associate of Science in Computer Science**, Santa Rosa Junior College — GPA: 3.8/4.0

June 2015 - May 2020

## SKILLS

**Technical Skills** Python, JavaScript, TypeScript, Java, PHP, SQL,  
Flask-RESTful, FastAPI, ReactJS, Node.js, Next.js, Django, HTML, CSS

**Tools** Git, Docker, Figma, Audacity

## PROJECTS

**SpellTrain II Mobile App.** (FastAPI, SQLAlchemy, React Native, OpenAI, Gemini API) - [GitHub](#)

Aug 2023 - May 2024

- Collaborated with a Google engineer and a team to design and develop an API for creating practice word lists, aiding children in improving vocabulary and spelling skills through interactive spelling bee competitions.
- 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 Web App.** (Flask-RESTful, SQLAlchemy, ReactJS) - [GitHub](#)

Aug 2022 - Nov 2022

- Co-developed a comprehensive job portal application using Python and Flask, enabling job search, application submission, and password recovery, through collaboration with a 4-member team.
- Enhanced application security by implementing password hashing using bcrypt, ensuring secure storage of user passwords. Additionally, integrated JWT-based authentication and email-based password recovery mechanisms to bolster overall security measures.
- Optimized data storage and retrieval for efficient job search and application tracking by designing and utilizing a relational database schema with SQLAlchemy ORM, showcasing database management and query expertise.

**VinaTea Web App (Side Project).** (NextJS, ExpressJS, Tailwind CSS, MongoDB) - [GitHub](#)

Aug 2023 - Present

- Developed a full-stack web application for an online milk tea store using Next.js and Express.js, featuring a product catalog, user authentication, shopping cart functionality, and order processing.
- Implemented secure payment processing with Stripe integration in the frontend and designed RESTful API endpoints for order management in the backend, enhancing the e-commerce functionality.

## EXPERIENCE

**Part-time Technician/Programmer**

June 2020 - July 2023

X-Scan Imaging Corporation

San Jose, CA

- Constructed and implemented Python Tkinter applications to automate data validation processes for the production team. Integrated the Google Sheets API to access specifications, enabling seamless comparison of test results with predefined criteria. This initiative resulted in a daily time savings of 30 minutes, eliminating manual comparison tasks and improving overall workflow efficiency.
- Coordinated with a 5-member engineering team to assemble, evaluate, and test CMOS and CCD detectors.
- 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.