

Niki Liao

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Education

Bachelor of Science, Computer Science. GPA: 3.891

San Jose State University – San Jose, CA.

- Dean's Scholarship Recipient
- President's Scholar (Twice)
- Scholar Male Athlete Club Sports Award

Expected Graduation: May 2025

Master of Science, Computer Science. GPA: 4.0

San Diego State University – San Diego, CA

Expected Graduation: May 2027

Experience

AGAPEA Gran Canaria SL – Malaga, Spain.

Jun 2025 – Aug 2025

Machine Learning Engineering Intern

- Improved an existing hotel pricing algorithm by integrating a Random Forest-based machine learning model to predict optimal room prices.
- Leveraged hotel location and booking period data to simulate real market behavior and enhance pricing accuracy.
- Automated daily margin updates by analyzing the volume of purchase requests from partner agencies, enabling dynamic pricing adjustments.

Inspira Mexico – San Diego, CA.

May 2024 – Aug 2024

Software Engineering Intern

- Developed and maintained a web application that utilizes **AI** to analyze hotel pricing trends, providing actionable insights for hotel management.
- Optimized database performance and efficiency using **MongoDB**, reducing query execution time by 30%.
- Assisted in designing and implementing **data pipelines** for AI-driven hotel price analysis.
- Collaborated with the development team to refine **backend services**, improving system performance and scalability.

San Jose State University – San Jose, CA.

Jan 2023 – May 2023

CS Teaching Assistant

- Led weekly tutorials for over 30 students in Java, "**Intro to Data Structures.**"
- Achieved an impressive **95%** student satisfaction rating, demonstrating strong teaching and communication skills.
- Assisted professors in developing and improving course materials for better comprehension and engagement.

San Jose State University – San Jose, CA.

Aug 2022 – Dec 2022

CS Grader

- Graded assignments and assessments for the "**Intro to Programming**" course.
- Provided detailed and constructive feedback to students to enhance their understanding of programming fundamentals.
- Ensured consistent grading standards and assisted instructors in **course management**.

Projects

Chatbot with Intent Recognition

Jan 2024 – Apr 2024

- Developed a rule-based chatbot in Python that uses TF-IDF and cosine similarity to match user questions with predefined answers.
- Designed an intent-matching system to respond to greetings, FAQs, and small talk
- Implemented with Flask to deploy the chatbot as a web app with a basic HTML/CSS interface.

Image Classifier with Machine Learning

Sep 2023 – Dec 2023

- Trained an image classification model using scikit-learn and the CIFAR-10 dataset.
- Preprocessed image data and used a Support Vector Machine (SVM) to classify objects like cats, cars, and airplanes.
- Evaluated model accuracy and visualized predictions with matplotlib.

AI-Powered Sentiment Analyzer

May 2023 – Aug 2023

- Built a Python application that uses Natural Language Processing (NLP) to classify text as positive, negative, or neutral.
- Used the NLTK library and a pre-trained Naive Bayes classifier for sentiment prediction.
- Developed a basic UI with Tkinter to allow users to input text and view the sentiment result.

Technical Skills

Programming Languages: Python, Java, JavaScript, Racket, Ruby, Prolog, Scheme, C, C++.

Web Development: HTML, CSS, React.js, Node.js.

Databases: MongoDB, MySQL, SQLite.