Jose Flores

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EDUCATION

Bachelors of Arts, Applied Mathematics

Minor in Computer Science · University of California, Berkeley · Berkeley, CA · 2027

· **Relevant Coursework:** Data Structures & Algorithms, Calculus I–III , Linear Algebra, and Fundamentals of Data Science

PROFESSIONAL EXPERIENCE

AI & Frontend Developer

ASSIST.org   **April 2025 – Present, Remote**

· Spearheaded the development of an interactive, AI-powered UI using **JavaScript** and **Node.js**, enhancing transfer planning across **116+ California Community Colleges**.

· Integrated **OpenAI's GPT-4 API** to enable natural language question answering, improving **student engagement** and self-service capabilities by **40%**.

· Collaborated with PMs to implement agentic design principles, ensuring scalability and intuitive UX for over **100,000+ users**.

Machine Learning Research Intern

California State University, Los Angeles   **February 2025 – June 2025, Remote**

· Developed a scalable **machine learning framework** aimed at optimizing mass evacuation routes during natural disasters by predicting real-time traffic flow using data from the TomTom Traffic API.

· Implemented advanced forecasting models including **ARIMA**, **Gradient Boosting Regressors**, and **bidirectional LSTM**, integrating predictions through an **XGBoost meta-learner** to enhance accuracy and adaptability.

· Conducted data preprocessing and feature engineering on **50,000+ traffic records** using Python (Pandas, Scikit-learn, TensorFlow).

STEM Tutor

Merced College   **September 2024 – June 2025, Merced, CA**

· Tutored **40+ students** weekly in computer science, calculus, and statistics, tailoring explanations to individual learning styles.

· Developed supplementary coding exercises and visual aids, improving their average exam scores by **20%**.

· Collaborated with CS faculty to identify struggling topics and track progress using Google Sheets and weekly reports.

PROJECTS

Math SBAC Score Analysis in Stanislaus County, California

· Analyzed how socioeconomic factors (e.g., family income, parental education, neighborhood characteristics) impact math performance on the SBAC standardized exam.

· Collected and cleaned multi-source education and census datasets using **Python (Pandas, NumPy)** and performed **correlation analysis**, **regression modeling**, and **data visualization** with **Matplotlib/Seaborn**.

· Identified significant disparities in scores based on school district income levels, providing insight into educational inequities across the region.

Personal Website Portfolio

· Developed a responsive React-based portfolio website showcasing professional expertise, technical projects, and skills.

· Implemented interactive UX elements, including contact forms with validation and project galleries.

· Deployed the site using a CI/CD pipeline with GitHub Pages, achieving optimized performance and SEO best practices.

SKILLS

· **Languages:** Python, SQL, Java, R, JavaScript, C++

· **Tools & Libraries:** Pandas, TensorFlow, Jupyter Notebook, Data Wrangler, Tableau

· **Platforms & Databases:** AWS, MySQL, PostgreSQL

· **Web Technologies:** HTML, CSS, JavaScript, Node.js, React