

Joseph David

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EDUCATION

California State Univeristy Long Beach

Bachelor of Engineering in Computer Science

GPA 3.8

Long Beach, CA

Expected graduation December 2025

EXPERIENCE

Machine Learning Undergraduate Researcher

California State University Long Beach

Aug 2024 - Present

Long Beach, CA

- Develop and optimize neural-symbolic deep learning models for multiclass ECG classification using PyTorch, achieving over 85% accuracy and enhancing diagnostic capabilities in cardiovascular health.
- Participate in the analysis and interpretation of complex datasets, contributing to research papers and presentations aimed at advancing medical AI applications.

Python TA

De Anza College

April - July 2023

Cupertino, CA

- Assisted over 30 students with understanding and solving problems related to their Python coursework, significantly enhancing their academic performance.

PROJECTS

Lingo AI (UC Berkeley) | *Next.js, Flask, React.js, Firebase*

June 2024 – June 2024

- Led a team of 4 people in a hackathon developing an AI-driven platform aimed at improving English speaking skills for non-native speakers.
- Utilized ChatGPT API and Hume AI to create a realistic environment for language practice and improvement.
- Designed and implemented the logic and API integrations, ensuring seamless communication and interaction for users.

AI Resume Helper | *JavaScript, MERN Stack*

Jan 2024 – Apr 2024

- Designed and developed an AI-powered resume helper application, ensuring seamless user experience and efficient data management using the MERN stack.
- Implemented a secure password storage system using bcrypt for hashing and AES-256 encryption.
- "Tips and Tricks" Section: Provides interactive, visual tutorials on tailoring resumes effectively, highlighting strategic content placement and industry terminologies.

Titianic Prediction | *Scikit-Learn, Numpy, Seaborn, Matplotlib*

Jul 2024 – Jul 2024

- Engineered predictive models using Linear Regression and RandomForest with Scikit-Learn on the Titanic dataset, achieving an 80 % accuracy rate through rigorous feature engineering and hyperparameter tuning.
- Leveraged NumPy, Seaborn, and Matplotlib for data analysis and visualization to identifying key patterns and insights that guided model adjustments.

Forsure | *Python, Flask, ReactJS*

Apr 2023 – Jul 2023

- Developed a web scraping website to aggregate job postings from multiple sources using Flask and ReactJS.
- Utilized Python libraries for scraping data and created RESTful API endpoints for data retrieval.
- Integrated Firebase for robust user data storage and management, ensuring secure and efficient handling of user information.

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, Java, Python, Typescript, C++

Technologies: Git, Firebase, React.js, RESTfulAPIs, MongoDB,

Libraries: jQuery, Beautiful Soup, socket.io, JWT, Flask, Pytorch, Scikit-learn, Seaborn, Matplotlib, Pandas

CERTIFICATIONS

Python For Data Visualization — LinkedIn Learning, May 2024

What is Generative AI? — LinkedIn Learning, May 2024