

# JIM WANG

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## Education

**University of California, Santa Barbara**

**Sep. 2022 – May 2026**

*Bachelor of Science in Computer Engineering*

*Santa Barbara, CA*

GPA: 3.76 (Dean's List Engineering)

## Relevant Coursework

- Data Structures
- Digital Logic
- Vector Calculus
- Object Oriented Program
- Digital Design Principles
- Linear Algebra
- Differential Equations
- Probability and Statistics

## Experience

**NSF BioPacific MIP**

**June 2023 – January 2024**

*Software Engineer Intern*

*Santa Barbara, CA*

- Developed a full-stack web application focused on database management and experiment design for users automating their synthesis on the Chemspeed robotic chemistry platform.
- Established a robust PostgreSQL database that stores and organizes user profiles, experiment details, and associated data.
- Utilized Next.js to make the web application robust and scalable. Implemented server-side rendering for improved performance and SEO. Integrated with a RESTful API for dynamic data handling. Utilized React hooks for state management and created reusable components for efficient development.
- Integrated the application with a secure user portal using Django for seamless user authentication.

**UCSB SIMS**

**August 2022 – September 2022**

*Data Science Research Intern*

*Santa Barbara, CA*

- Conducted research on groundwater systems with other SIMS interns and presented our findings in an academic setting.
- Plotted and analyzed groundwater temperature data using R and the Pandas Python library.
- Developed knowledge in research procedures, data cleaning, and programming.
- Contributed to the development and implementation of data cleaning protocols, ensuring the accuracy and reliability of the data used in our research.

## Projects

**Speech Emotion Recognition App** | *Python, Google Cloud Compute Engine, Django, Git, Jupyter Notebook* **April 2023**

- Uses speech emotion recognition to generate color-captioned subtitles from an mp4 file.
- Extracted key features from audio files using python libraries such as librosa and soundfile.
- Trained a neural network to classify emotions from extracted audio features using scikit-learn's MLPclassifier.
- Deployed website at using Google Cloud Compute Engine.

**Chrome Extension for AI-Enhanced Web Interactions** | *OpenAI API, HTML, CSS, JavaScript, NodeJS* **March 2023**

- Developed a Chrome extension that uses Javascript and DOM manipulation to dynamically update the content of web pages in response to user interactions.
- Made calls to the OpenAI API to provide additional functionality to users.
- Built and maintained a NodeJS server hosted on Railway to handle API calls and data processing.
- Used HTML and CSS to create a seamless user interface.

## Technical Skills

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Web Frameworks:** React, Node.js, Next.js, Django

**Deep Learning Frameworks:** Pytorch, Tensorflow

**Developer Tools:** Git, Docker, Google Cloud/Google Compute Engine, VS Code, Visual Studio

**Libraries:** Scikit-learn, Numpy, Pandas, Librosa, Matplotlib

## Extracurriculars

**Data Science Club**

**Sept. 2022 – Present**

*Member*

- Competed in Data Science Club competition with project "SentimentSub" which used speech emotion recognition to generate color-captioned subtitles from an mp4 file.