

Jim Wang

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

Bachelor of Science, Computer Engineering

Sept. 2022 – June 2026

Relevant coursework: Object-oriented programming, Data Structures, Discrete Mathematics, Linear Algebra, Vector Calculus, Probability and Statistics

Washington High

Fremont, CA

Graduated with high honors

Aug. 2014 – May 2018

SAT: Math: 790, Reading/Writing: 760

EXPERIENCE

Software Engineer Intern

June 2023 – Present

NSF Biopacific MIP

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
- Used ReactJS, Javascript, HTML5, and CSS for the frontend, and NodeJS for the backend
- Set up a database to store user profiles, experiment details, and associated data, ensuring proper organization and retrieval using PostgreSQL
- Used Django for user portal and authentication, and configured nginx as a reverse proxy for Django and Node

Data Science Research Intern

Aug. 2022 – Sept. 2022

UCSB SIMS

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
- Developed knowledge in research procedures, data cleaning, and programming

PROJECTS

SentimentSub | *Python, Django, Google Cloud, Git, Jupyter Notebook*

Nov. 2022 – 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 a working website at sentimentsub.com using Google Cloud Compute Engine

ChatCheck | *OpenAI API, HTML, CSS, Javascript, NodeJS, Git*

May 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, React Native

Deep Learning Frameworks: Pytorch, Tensorflow, Keras

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

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