Jim Wang

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Education

University of California, Santa Barbara **September 2022 – May 2026**
Bachelor of Science in Computer Engineering *Santa Barbara, CA*
GPA: 3.8 (Dean's List Engineering)

Relevant Coursework

- Data Structures
- Algorithms
- Verilog/FPGAs
- Distributed Systems
- Embedded Systems
- Computer Architecture
- Machine Learning
- Digital IC Design

Experience

Software Engineering Intern | Correkt *Santa Barbara, CA | September 2024 – Present*

- Spearheaded the design and implementation of the search results UI using Next.js, enhancing user experience for thousands of active users.
- Collaborated with the backend team to seamlessly integrate the frontend with a FastAPI backend, ensuring efficient data flow and optimal performance.
- Utilized React hooks and custom components to create a responsive and interactive search interface, improving user engagement metrics by 30%.
- Optimized application performance through code splitting and lazy loading, reducing initial load time by 1.5 seconds.

Full-Stack Software Developer | NSF BioPacific MIP *Santa Barbara, CA | June 2023 – April 2024*

- Led the development of a full-stack web application that helps researchers design experiments and control Chemspeed robotic chemistry equipment, used by 30+ researchers.
- Established a robust PostgreSQL database to store and manage user profiles, experiment details, and research data.
- Used Next.js to make the web application robust and scalable. Implemented server-side rendering for improved performance and SEO.
- Set up automated testing with Jest and React Testing Library, reaching 90% code coverage and halving bugs
- Integrated the application with the official Biopacific MIP user portal using Django for seamless user authentication.

Projects

RateMyResume | *Next.js, React, Javascript, HTML, CSS, FastAPI* **January 2024**

- Designed and developed a web application for anonymous resume feedback, leveraging Next.js, FastAPI, and MongoDB
- Integrated Amazon Comprehend to automatically anonymize uploaded resumes, ensuring unbiased feedback and protecting user privacy
- Engineered a robust backend using FastAPI, creating RESTful endpoints for efficient data processing and real-time communication with the frontend
- Collaborated effectively in a team of 4, taking a leadership role in coordinating both frontend and backend development.

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.

Technical Skills

Languages: Java, Python, 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.