Howard Wei

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EDUCATION

San Jose State University

San Jose, CA

GPA: 3.70, B.S. in Computer Science

May 2027

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Operating Systems

EXPERIENCE

Cytokinetics

South San Francisco, CA

May 2025 - Aug 2025

AI Data Scientist Intern

- Pioneered a visualization platform that processes user requests for 1M+ data points by developing a sophisticated
 AWS Bedrock LLM agent with Lambda functions for real-time database integration.
- Developed AI-powered data solutions that automated data processing tasks resulting in 70% adoption rate among researchers and 90% reduction in visualization creation time.
- Implemented user-friendly, natural language interfaces using **Vue**, enabling **100+** scientists to generate complex visualizations without coding knowledge, resulting in **85%** increase in data analysis frequency.

Google Developer Group

Merced, CA

Lead Machine Learning Engineer

Sept 2024 - Dec 2024

- Built a paper trading platform for analyzing trading habits and providing retail investors with insights.
- Recruited and led the Machine Learning Team of 25 students from 5 universities, using Agile methodologies (Kanban), GitHub Pro, and Jira to ensure collaboration and task management.
- Integrated real-time and historical market data into a SQLite database using Alpaca Markets REST API.
- Utilized the applications of OpenAI GPT-40 and Groq APIs on 7 different metrics of financial advice.

Machine Learning Club at SJSU

San Jose, CA

Full Stack Web Developer

Sept 2024 - Present

- Developed 5 API endpoints to save and fetch user posts and readings in a cloud **PostgreSQL** database.
- Designed and implemented frontend user interface with **React** and **Tailwind CSS**, fetching data from API endpoints using **SWR**.
- Collaborated with the development team using **Git** for version control and **GitHub** for project management, implementing best practices for code reviews and feature branching.

Projects

EmotionAI April 2024

- Led a team of **5** student engineers across **4** universities nationwide in developing a human emotion detection model using **over 35,000** images of facial expressions.
- Trained and tested a 5-layer custom Sequential neural network using Python, TensorFlow, and OpenCV image processing.
- Achieved **over 60%** accuracy for **7** total facial expressions (common and uncommon).

ByTech August 2023

- Online classroom for programming teachers to publish programming problems and create test cases.
- Utilized Firebase to organize and store accounts, classes, and assignments.
- Compiles Python into WASM with Pyodide to be run in browsers.
- Built frontend with **Next.** is, **React**, and **Tailwind CSS** for a responsive and seamless user experience.
- Leveraged Agile methodology (Scrums), ensuring iterative improvements and regular feedback integration.

TECHNICAL SKILLS

Languages: Python, Typescript, Javascript, Javas, C/C++, SAS, SQL, HTML/CSS, WASM

Frameworks: LangChain, TensorFlow, Django, Django REST, Next.js, React, Nuxt, Vue, Tailwind CSS

Developer Tools: AWS, Git, Jira, PostgreSQL, SQLite, Jupyter, VSCode, Agile, Eclipse, Vercel, Firebase

Libraries: OpenCV, Keras, Matplotlib, Seaborn, NumPy, Pandas, Scikit, Pyodide, SWR