

Howard Wei

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EDUCATION

San Jose State University

San Jose, CA

GPA: **3.83**, B.S. Computer Science

May 2026

Relevant Coursework: Data Structures & Algorithms, Linear Algebra, Discrete Math, Object-Oriented Design

TECHNICAL SKILLS

Languages: Typescript, Javascript, Python, Java, C++, HTML/CSS, WASM

Frameworks: Tensorflow, Django, Django REST, Vue.js, Next.js, React.js, Tailwind CSS

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

Dev Tools: AWS, Git, Google Colab, Jupyter, VSCode, Eclipse, Vercel, Firebase

EXPERIENCE

Google Developer Group, UC Merced

September 2024 - Present

Lead Machine Learning Engineer

- Built a paper trading platform for analyzing trading habits and providing retail investors with insights.
- Led a team of **20+ students** nationwide using **Agile** methodologies and held standups.
- Utilized **Github Pro** and **Jira** task management for version control, progress tracking, and smooth collaboration.
- Researched the applications of OpenAI GPT-4o on financial advice.

Machine Learning at SJSU

September 2024 - Present

Web Developer

- Implemented dynamic data fetching and caching for real-time updates on event schedules and blog posts using **SWR**.
- Designed and implemented frontend with **React.js** and **Tailwind CSS**, creating a responsive and user-friendly interface for club members to share insights and updates.
- Collaborated with the development team using **Git** for version control and **GitHub** for project management, implementing best practices for code reviews and feature branching.

Spartan Gaming

February 2024 - Present

Software Engineer / Event Coordinator

- Used **Vue.js** and **Typescript** to build a dynamic, mobile-friendly club website from scratch.
- Hosted weekly online gaming events for over **3000+** SJSU and non-SJSU club members.
- Organized and live-streamed tournaments with several cash and physical prizes.
- Co-hosted fundraisers to raise money for club and charity partners.

PROJECTS

AImply

- Analyzes sentences spoken within a context that helps better understand underlying meanings.
- Utilized **BERT** to enhance context-aware sentence analysis, enabling accurate detection of implied meanings in conversations.

EmotionAI

- Led the development of a human emotion detection model using **35000+** images of facial expressions.
- Utilized **OpenCV** video capture to recognize and process multiple objects in images.
- Trained on **Tensorflow** Sequential model to customize and fine-tune neural networks for optimal training.
- Achieved **60%+** testing accuracy for **over 5** common and uncommon facial expressions.

ByTech

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

AWARDS & CERTIFICATIONS

GIAC Foundational Cybersecurity Technologies (GFACT)

June 2024

National Cyber Scholar

February 2024