

Howard Wei

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EDUCATION

San Jose State University

San Jose, CA

GPA: 3.83, B.S. Computer Science

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

TECHNICAL SKILLS

- **Languages:** Typescript, Javascript, Python, Java, C++, HTML/CSS
- **Frameworks:** Tensorflow, Vue, Next.js, React, Tailwind CSS
- **Libraries:** Matplotlib, Seaborn, NumPy, Pandas, Scikit, OpenCV, Keras, Pyodide
- **Dev Tools:** Git, Google Colab, Jupyter, VSCode, Agile, Eclipse, Vercel, Firebase

EXPERIENCE

Spartan Gaming

February 2024 - Present

Software Engineer / Event Coordinator

- Used **Vue** 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.
- Participated in fundraisers to raise money for club and charity partners.

PROJECTS

AImply

- Analyzes sentences spoken within a context which helps better understand underlying meanings.

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 **7** 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.
- Front end built on **Next.js**, **React**, and **Tailwind** for a seamless user experience.
- Followed **Agile** development process, ensuring iterative improvements and regular feedback integration.

EXTRACURRICULAR ACTIVITIES

AI4ALL Ignite

February 2024 - May 2024

Member

- Completed an intensive AI4ALL Ignite program focused on foundational AI concepts, including machine learning, neural networks, and data analysis.
- Collaborated with peers and mentors to apply AI concepts to hands-on projects.
- Successfully deployed AI solutions to solve real-world problems.

AWARDS & CERTIFICATIONS

GIAC Foundational Cybersecurity Technologies (GFACT)

June 2024

National Cyber Scholar

February 2024