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, Next.js, React, Tailwind CSS
- **Libraries**: Matplotlib, Seaborn, NumPy, Pandas, Scikit, OpenCV, Keras, Pyodide
- **Dev Tools:** Git, Google Colab, Jupyter, VSCode, Eclipse, Vercel, Firebase

EXPERIENCE

Spartan Gaming   *February 2024 - Present*
Web Developer / Event Coordinator
- Used **React** and **Tailwind** to build a dynamic 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** for a seamless user experience.

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*