Howard Wei

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SUMMARY

Passionate computer science student with a versatile skillset based on project experience. Eager to face problems head-on and always willing to take on new challenges and responsibilities.

EDUCATION

San Jose State University   San Jose, CA
GPA: 3.83, B.S. Computer Science

PROJECTS

ByTech | dualhacks.vercel.app   *August 2023-August 2023*
- **Skills:** Tailwind CSS, React, Vercel, Next.js, Typescript, Firebase, Pyodide
- Classroom built for programming teachers.
- Allows teachers to host classrooms and publish coding assignments for their students.
- Allows students to join classrooms using an auto-generated class code upon classroom creation.
- Gives teachers a Leetcode-esque platform to publish their programming problems, create test cases, and manage assignments.
- Compiles Python into WASM to be run in browsers.

EmotionAI   *April 2024-ongoing*
- **Skills:** Jupyter/Python, Matplotlib, Seaborn, NumPy, Pandas, Sklearn, OpenCV, TensorFlow, Keras
- Leading the development of real-time human emotion detection based on facial expressions.
- Used image processing techniques to detect particular human facial expressions.
- Created an AI model with 80% testing accuracy using 3 emotions (Surprise, Fear, Disgust).
- Currently making modifications to score higher test accuracy on a larger range of emotions.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, HTML/CSS, Javascript, Typescript
- **Frameworks:** Tailwind CSS, Typescript, React, Next.js
- **Libraries**: Matplotlib, Seaborn, NumPy, Pandas, Scikit, OpenCV, TensorFlow, Keras, Firebase, Pyodide
- **Other:** Git, Jupyter Notebook, VSCode, Eclipse, Vercel

ADDITIONAL SKILLS

- **Tools**: Microsoft 365; Google Sheets, Docs, Slides
- **Languages:** Proficient in English and Chinese (Writing and Speaking)
- **Analytical:** Analyzing, Categorizing, Managing Data, Computing
- **Leadership/Management:** Managing Projects, Building a Team, Setting Goals

AWARDS & CERTIFICATIONS

National Cyber Scholar   *February 2024*
- Provided by the National Cyber Scholarship Foundation.
- Among the top 3,000 highest-scoring cybersecurity students on CyberStart in the United States as of January 11, 2024.
- Won a $3,400 scholarship to access the SANS Foundation cybersecurity course and one attempt at the GIAC Foundational Cybersecurity Technologies (GFACT) certification.

GIAC Foundational Cybersecurity Technologies (GFACT)   *June 2024*
- Issued by Global Information Assurance Certification (GIAC).
- Applied fundamental programming, exploitation, forensic, and cybersecurity concepts in lab environments.