Warren Wu

512-844-5932 | warrenweiwu04@gmail.com | linkedin.com/in/warren-wu4 | github.com/WarrenWu4

SKILLS

Programming Languages: Python, Java, C++, Kotlin, HTML, CSS, JavaScript, Typescript
Technologies: React, React Native, Next.js, Three.js, Node.js, Express, Expo, Electron, Firebase, MongoDB, TailwindCSS, MUI, MySQL, Stripe, Figma, Pandas, NumPy, TensorFlow, Flask, Git, Docker, Linux

EXPERIENCE

General Motors   **Austin, Texas**
Software Engineer Intern   May 2024 – August 2024
- Used **Angular** and **Java Spring Boot** to create a battery passport that traces the lifecycle and composition of EV batteries starting from the mineral-level for more customer transparency and business automation.
- Improved business efficiency by 16% through automating government compliance checks and providing real-time alerts for problematic vehicles.
- Used Mapbox to display supply chain information allowing for more in-depth review of potential location issues throughout a battery's manufacturing process.
- Used Chart.js and custom-made graphics to improve data visualization leading to increased customer satisfaction and a higher ease-of-use rating from business operatives.

General Motors   **Austin, Texas**
Software Engineer Intern   May 2023 – August 2023
- Transferred internal tools and web pages from SharePoint On-Premise to SharePoint Online with the **SPFX framework**, **React**, and **Gulp**, leading to reduced server costs by 4%, and improved scalability of apps and data hosted on the servers.
- Leveraged embedded web parts using **HTML**, **CSS**, and **JavaScript** to build custom components for a more modern UI, leading to smoother graphical interfaces and improved user experience by 12%.
- Cleaned and created data analytics as well as visuals with **Python** and **PowerBI** to track progress and bottlenecks in an internal KM improvement project speeding up progress by 6%.
- Created separate documentation page on editing SharePoint websites with **HTML**, **CSS**, and **JavaScript** featuring custom routing and a simple search algorithm to assist future developers.

PROJECTS

CheckMate | *Python, Flask, React, Llama, Mixtral, GCP*
- A browser extension that fact checks short form content using web scraping, audio to text model, and various LLMs to check claims made within the video and label them as either true, false, or unknown.
- Implementing a vector similarity algorithm between LLM outputs, raising accuracy by an additional 16%

Aicuity | *Python, Flask, React*
- A web app that generates personalized study playlists that saves an estimated 4 hours of study time per use.
- Uses custom models that detect video relevancy through cosine similarity and sound quality through audio wave analysis to determine and rank a large query of videos.

Orbital | *Typescript, React, TailwindCSS, Flask, OpenCV, Firebase, MediaPipe, Gemini*
- A platform that connects people from different cultures through the medium of dance empowering people from all around the globe to upload, manage, and participate in dances of other cultures.
- Features a live video stream that tracks a user's movement and provides additional feedback using computer vision, a classification model, and an in-house score calculation algorithm.

INVOLVEMENT

TAMU Datathon   **College Station, Texas**
President   Jan 2023 – Present
- Led a team of 32 organizers in creating all the necessary infrastructure for an event with 500+ applicants.
- Previously on the development team helping develop a help queue ticket system, and registration application.

Aggie Coding Club   **College Station, Texas**
Workshops Officer   Aug 2022 – Present
- Used a variety of teaching styles such as code-alongs, and competitions to create fun and engaging workshops.
- Taught a variety of topics including game development with Pygame, how APIs work, and building CLI tools.

EDUCATION

Texas A&M   **College Station, Texas**
B.S. Computer Science   May 2025
- 3.84 GPA

MISC

Work Eligibility: Eligible to work in the U.S. with no restrictions