Aaron Alvarez

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EDUCATION

- **University of Cincinnati** — Cincinnati, OH
  BS in Computer Science; GPA: 3.53 — *August 2022 - May 2026*
  Courses: *Computer Networking IT 1080C, Intro to Computer Science, AP CS A, AP CS Principles*

TECHNICAL SKILLS

- **Languages**:   Python, C++, Java, HTML/CSS, JavaScript, Swift
- **Frameworks**:   TensorFlow, Django
- **Tools**:   Pandas, Numpy, Sci-Kit, Tkinter, GIT, Wireshark, Jupyter
- **Platforms**:   Linux, Windows, MacOS
- **Soft Skills**:   Leadership, Public Speaking, Time Management, Writing

EXPERIENCE

- **Millspaw Electronics** — Cincinnati, OH
  Software Engineering Intern — *May 2022 - Present*
  - **Predictive Maintenance Machine Learning Model**: Trained and fine-tuned a variety of machine learning models, including support vector machines and random forests, using TensorFlow and scikit-learn for predictive maintenance/anomaly detection of industrial systems. Preprocessed and cleaned data using Python libraries such as Pandas and NumPy. Live data tests resulted in 95 percent accuracy.
  - **Kubernetes Cluster**: Set up a Kubernetes cluster with Linux running on multiple Jetson Nanos for deployment and added reliability of the predictive maintenance model.
  - **GUI Interface for Predictive Maintenance**: Created an easy-to-use GUI in Python for implementing the developed machine learning model for predictive maintenance.

- **Oriental Wok** — Cincinnati, OH
  Server's Assistant — *Sept 2020 - March 2022*
  - **Role**: Accommodated and served guests in a high-stress environment. Learned strong people management and hospitality skills.

- **Eddie Bauer** — Cincinnati, OH
  Sales Associate — *Aug 2020 - Dec 2020*
  - **Role**: Maintained the store and worked to market new products to guests. Assisted guests with the point of sale.

PROJECTS

- **Laundrivr**: Worked on the development of a laundry iOS app available on the App Store that enabled users to schedule and manage laundry services. This included designing and programming the app's user interface with Flutter, implementing features such as: logging in, scheduling services, tracking orders, etc., and integrating with existing back-end systems (Supabase). Additionally, I implemented push notifications for order status updates and troubleshooting any issues that arose. Lastly, I conducted unit and functional tests to ensure the app was working as expected.(December '22)

- **Diversidy**: Developed a full-stack web application using React and PostgreSQL to help users view the overall diversity of their investment portfolio. Utilized brokerage APIs to retrieve real-time data on the user's investment holdings and display their overall investment diversity in a clean, attractive user interface. (October '22)

- **SOLIST**: Created a mobile application using Swift to track daily vitamin D intake from sunlight exposure. Utilized geolocation and weather APIs to accurately calculate the amount of vitamin D produced by the body based on user's location and current weather conditions. Developed a user-friendly interface for users to input their skin tone and clothing coverage, and to view their Vitamin D intake. Additionally, implemented push notifications to remind users to get adequate sunlight exposure. (February '22)

- **Python Endless Runner Game (SquishsGame)**: Run forever ducking flies and dodging snails. Made with PyGame. Can be played using the command line. (February '22)

- **Portfolio Website**: A personal website created in HTML and CSS to display my work, and organize my socials. (February '22)

EXTRACURRICULARS

- **Co-Founder of Conquistadors of Cincinnati Youth**: Co-Founded a volunteer organization to help Latino Youth in the Greater Cincinnati area find a path to STEM, and college. (September '21)

- **Kappa Sigma Fraternity**: As a member of kappa sigma, volunteered at various local organizations including: Clean up Cincy, Keep Cincy Beautiful, etc. (September '22)

- **Programming Club**: Member of the Walnut Hills High School Programming Club. Worked on the LoFi music app that took 4th place in the Interalliance TechOlympics Competition, winning our chapter over a thousand dollars. (Sept '21)