**Austin Meléndez**

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**OBJECTIVE**

Detail-oriented and easy-going individual looking to gain relevant industry experience through an internship. Excellent at problem solving, communication and dedicated to delivering on-time results.

**EDUCATION**

**Bachelors of Science in Computer Science California State University, Sacramento** Expected May 2026

**Bachelors of Science in Statistics California State University, Sacramento** Expected May 2026

**Minor:** Business Analytics **GPA:** 3.61 **Honors**: Dean’s Honors List, Spring 2023 - Spring 2024

**Relevant Coursework:** *Analyzing and Processing Big Data, Data Visualization, Database Systems, Software Engineering, Systems Programming in UNIX, Statistical Computing, Probability Theory, Mathematical Statistics, Linear Algebra,* *Data Structures and Algorithms*, Intelligent Systems, Computational Biology, Business Intelligence Applications, Data Mining for Business Analytics, Data Analytics and Mining

**KEY SKILLS**

**Languages:** Python, Java, Bash, SQL, HTML, CSS, C

**Databases:** Oracle Database, AWS, Vendia

**Data Analysis:** Jupyter Notebook, Pandas Library, Seaborn Library, MATLAB

**Tech:** Git, MS Office

**PROJECTS**

**Pharmaceutical Trial Progress Tracker ( Full-Stack ) [**[**pharma.austinmelendez.com**](http://pharma.austinmelendez.com)**]**

Class project with **external sponsor** **Vendia** providing cloud database services. Isolated portals for the FDA, doctors, and drug manufacturers to monitor status of active and completed clinical drug trials.

* Leveraged data **ACLs** in a **cloud network** to maintain segregated data access between clients in a **Vendia** databaseto ensure double-blind trial standards and secure patient identifying information.
* Added **Firebase Authentication** for security, allowing different levels of access in each client’s portal.
* As **Project Lead**, directed meetings with **six members**, assigning tasks and troubleshooting problems to ensure progress for each bi-weekly **“sprint” deadline** andcorresponding **client feedback meeting**.

**Trends in Global Weather Data ( Data Analysis ) [**[**weather.austinmelendez.com**](http://weather.austinmelendez.com)**]**

Analyzed global weather data hosted on a **remote server**. Created a **bash script** for data fetching and a **python script** calculating the median temperature at specified stations for every year data was recorded.

* Implemented **parallel programming** techniques to **reduce runtime** of the scripts by **70%** overall.
* Connected, using **SSH,** to a server hosting **108 GB** of global weather data collected from 1750 to 2023.
* Used **pandas** and **seaborn library** to graph data, creating approachable visuals to convey data trends.

**TCP Chat Service with Machine Learning ( Data Analysis ) [**[**pychat.austinmelendez.com**](http://pychat.austinmelendez.com)**]**

Using Python, set up **sockets** to create **TCP connections** between clients and the server. Hosted project on web app using **NodeJS**. Tested **Machine Learning** algorithm to filter out expletive words from chat.

* K-Means Clustering and Machine Learning to suppress negative words in chat
* Added **multithreading,** creating a new thread with each TCP connection, **improving performance**.