PABLO CORTEZ

PROFILE

University of California,
San Diego

Mathematics-Computer
Science major

CONTACT

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LANGUAGES

React
JavaScript
HTML
CSS
C++
Java

WORK EXPERIENCE

Tesla, Production Associate: Fremont, California
December 2022-Current
Part of the quality control team, in the South-Paint team, we are tasked with finding, fixing, and reporting "holes" during the sealer process.

Intern, KIV Broker: Sausalito, California
June 2021–September 2021
Used Scrapy and Scrapy-Splash to obtain data from the NAIC website; created C++ programs to clean and format the data to create visualizations using Tableau. The visualizations were used to give information about how the complaint index to help investors and consumers. During this time, I taught myself web-scraping and JavaScript.

EDUCATION

University of California, San Diego
BS Mathematics-Computer Science, Graduated Winter 2022
Linear Algebra, Graph Theory, Abstract Algebra, Cryptography, Data Structure Design and Analysis.

Tamalpais High School
Mill Valley, California

PROJECTS

- **File Compression**: Used a Huffman Encoding Tree and created a buffer to compress files, C++, school project.
- **Greedy Algorithms Reduce Credit Card Debt(In Progress)**, created a Greedy algorithm to help people pay down credit card debt. If multiple credits lines are open, helps decide which to paydown first. Recommends the Divide Method if debt accrued on daily, monthly, or average basis. C++, QT GUI, Self Interest Project.
- **Autocomplete:** Used ternary trees to build a dictionary in order to implement autocomplete based on the letters already typed in. Then implemented a wildcard predictor, based on the wildcard pattern, where the most to least frequent words matching the pattern were returned. C++, School Project.
- **Scraping NAIC Website. Python/Scrapy**
- **JavaScript Projects. (Vanilla JS)**
  - **Workout Log**: I used the React framework to create a workout log that allows users to create multiple workout sheets and add, delete, or modify their exercises.
  - **Furniture Store**: uses an API to retrieve data to set the store data and user cart information the local storage, to be accessed across all pages.
  - **Cocktail API:** uses an API that allows users to explore a catalog of cocktail recipes that can filtered based on preferences.
  - **Wikipedia:** uses Wikipedia's API to create a page that displays links to top search results.