

# PABLO CORTEZ

## PROFILE

University of California,  
San Diego

Mathematics-Computer  
Science major

## CONTACT

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pvccortez.github.io

### GITHUB:

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## LANGUAGES

C++  
Java  
React  
JavaScript  
HTML  
CSS

## WORK EXPERIENCE

### 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.