Brandon Cao

brandoncao74@gmail.com · (718) 532-6148 · Oakland Gardens, NY
https://github.com/bcao4 · https://www.linkedin.com/in/bcao4/

Education

Stevens Institute of Technology   **Hoboken, NJ**
Bachelor of Science in Computer Science   Expected May 2022
Cumulative GPA: 3.5 / 4.0, Dean's List Spring 2020, Fall 2020, Spring 2021, Fall 2021
- **Relevant Coursework** - Web Development and Project Management, Data Structures, Algorithms, Systems Programming, Database Management, Mobile Systems and Applications in Android

Professional Experience

Spark Foundry   **New York, NY**
Data Analytics Intern   June 2021 - August 2021
- Utilized Datorama to create interactive and dynamic dashboards displaying various KPIs, marketing metrics, pivot tables and graphs that update weekly and allow for customizability for various campaigns and time periods
- Collaborated with leadership to create monthly decks analyzing performance and presented them to clients while suggesting areas of improvement, which improved month over month performance and spending efficiency by 20%

Ricoh (mindSHIFT Technologies Inc.)   **New York, NY**
Computer Engineer Intern   July 2020 - August 2020
- Re-imaged hundreds of used laptops using Quest Kace and established device inventory tracking for Ricoh's clients in order to streamline the quality assurance process for device redeployment resulting in 0% return rates

Software Projects

CryptoTracker *(https://cryptotracker-exchange.herokuapp.com/)*
- Programmed a Single Page Application (SPA) with React, utilizing the CoinGecko cryptocurrency API to display data and information of top cryptocurrency coins with the Material UI Library.
- Utilized the chartJS library and WebSockets to display a price history graph for all coins, and to update the price of the coin in real time
- Developed functionality for users to simulate the buying and selling of coins, and for users to securely create accounts by using proper salting and through the implementation of Firebase authentication
- Implemented pagination and a search function into the SPA to allow users to search for specific coins, and to allow users to navigate through the data easily to improve the user experience

Binterest
- Developed a web application to pull images from the Unsplash image API using Apollo GraphQL to query specific data needed for the site
- Designed and implemented a system to allow users to save and unsave posts, where the saved posts data were cached into redis, and users could access all saved posts in one place
- Integrated a feature where users could upload posts or delete uploaded posts onto the web page through the use of GraphQL mutations on the backend, and with Bootstrap form groups on the frontend

Stress-Less Tutoring
- Developed a tutoring web application that utilizes MongoDB to allow students to create accounts, post questions on a forum, connect and receive help from tutors, and to review their experience with the tutor
- Utilized server side and client side Javascript, jQuery and AJAX to validate forms and user input, process form submissions, and defend against XSS attacks on dynamic web pages

Cruise Control
- Utilized agile software development to develop a program that simulates a cars cruise control mechanism in Java
- Created a technical design document laying out the high level system requirements, data architecture, using UML and use case diagrams in order to visualize and define the structure of the system being developed

Skills and Interests

Programming Languages: C++, CSS, HTML, Java, JavaScript, and Python
Frameworks and Libraries: Apollo, Bootstrap, Express.js, Handlebars.js, Node.js, jQuery, React
Tools and Software: Git, Microsoft Office, Google Suite, MongoDB, GraphQL, MySQL, Redis, SCSS, Shopify 2.0, Visual Studio Code, Apple and Windows OS
Languages: English, Mandarin Chinese