

# Cameron Colleran

[cameroncolleran3@berkeley.edu](mailto:cameroncolleran3@berkeley.edu) | [cameroncolleran.github.io/portfolio](https://cameroncolleran.github.io/portfolio) | [linkedin.com/in/cameroncolleran](https://linkedin.com/in/cameroncolleran)

## EDUCATION

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### University of California, Berkeley

Expected Graduation: Dec 2023

*Bachelor of Science, Electrical Engineering and Computer Science (GPA: 3.40)*

## EXPERIENCE

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### Software Engineer Intern

May 2022 – Jul 2022

*Olive AI*

- Worked on team of engineers in agile environment to develop and implement a Minimum Viable Product (MVP) to serve needs and requirements of new client
- Utilized TypeScript along with Puppeteer, Sequelize, and Docker to create a robust, multi-tiered service to automate manual processes for hospital administrators across the United States, saving hundreds of hours of total work per week
- Created rich end-to-end testing of product's entire workflow and CRUD life-cycle using replicated mock data
- Communicated and translated the technical details and requirements of the MVP to Product Owners, and presented multiple demos and updates of the product to Project Managers and Executives throughout development cycle

### Computer Science Tutor

Jan 2021 – May 2021

*MiraCosta College*

- Tutored both new and advanced students in Computer Science courses and concepts, from basic programming to data structures and computer architecture
- Explored advanced topics with knowledgeable students, including how to leverage software and online tools to enhance learning and improve projects
- Identified learning needs and implemented fun and engaging learning activities to help students advance their skills

## PROJECTS

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### Water Doctor | *Java, Android Studio, SQLite, Google Maps API*

- Developed a full-stack mobile application using Java/Android Studio to interface with an external sensor in determining water quality and drink-ability
- Used an SQLite database to save test data persistently
- Implemented a visual map overview using the Google Maps API in order to exhibit tests in specific areas
- Presented app and sensor to judges at Berkeley's T-PREP Design Expo, was selected as best overall product

### Market Bot | *Python, Tweepy, Finnhub API*

- Created a Twitter bot which tweets insights and information about the stock market
- Used Python along with the Finnhub API and Tweepy/Twitter API to retrieve financial data and make tweets
- Utilized PythonAnywhere to continuously host and run code in order to both automatically respond to incoming tweets, as well as deliver automated tweets at pre-scheduled intervals

### Pokedex | *Java, Android Studio, SQLite, Picasso*

- Developed an android application allowing users to view all existing Pokemon and their corresponding statistics
- Kept data up-to-date by calling GitHub API for JSON data from existing open-source repository
- Used Picasso to retrieve corresponding pictures of each Pokemon

### REST API | *JavaScript, Node, Express, Mongoose, MongoDB, Postman*

- Created a REST API to perform CRUD operations on social media data
- Used Node with Express to set up server, routing and requests
- Constructed a NoSQL database using MongoDB, and utilized Mongoose to create schemas and read, write, update, and delete data
- Utilized Postman to create new posts and users for API to perform operations on

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C++, TypeScript, JavaScript, HTML, CSS, SQL

**Frameworks:** Android SDK, Node.js, Express.js, JUnit, Sequelize, Mongoose

**Developer Tools:** Git, VS Code, Command Line, GitHub, Postman, Docker, MongoDB, NPM

**Libraries:** Puppeteer, Bootstrap, NumPy