

## Kenny Collings

[github.com/collingsKenny](https://github.com/collingsKenny)  
[collingsKenny@gmail.com](mailto:collingsKenny@gmail.com)  
(925) 789 - 7311

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Recent graduate looking to help create web applications. I enjoy working with modern JavaScript technologies such as React and Node.js, and I am seeking a position as a front-end or full-stack developer.

### Education

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B.S. Computer Science - UC Santa Cruz, December 2019

### Projects and Work Experience

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#### Better Turnips Exchange - Group Personal Project

*Front End Developer*, May 2020 - June 2020

Technologies: React.js, Tailwind CSS

- A team of four and I worked to create a companion web app for the popular video game Animal Crossing.
- Implemented a React.js web app to work with an API built by other members of the group.
- Provided insight and guidance to back-end team to allow for seamless and efficient integration into the front end.
- Used Tailwind CSS to create styles that match the aesthetic themes of the video game and maintain a responsive UI.
- Used new features such as web notifications in conjunction with animations to alert users.

#### Simple Schedule - Solo Personal Project

*Full Stack Developer*, April 2020 - May 2020

Technologies: MongoDB, Express, React.js, Node.js, Redux, Tailwind CSS

- Used react to develop a web application to allow users to dynamically track their schedules.
- Built to help me apply my computer science knowledge and learn the MERN stack.
- Used redux within react to manage and communicate state with API.
- Learned a lot about how to efficiently architect web applications in order to manage complexity and allow for future changes.

#### Tanabe-Sugano Diagram Android App - Class Project

*Android Developer*, September 2019 - December 2019

Technologies: Android, Java

- Created an Android application in Java to specifications set by a chemistry professor to simplify a complicated chemistry topic for use by upper-division chemistry students.
- Followed MVC development practices to process data logically and consistently.
- Implemented data structures (TreeMap) strategically to efficiently process a sizeable amount of data, display the data as a graph, and perform calculations between data sets on the fly.
- Presented the graphs and added options in an understandable way so that users could effectively find the information they are looking for.

#### LockWire Project - CruzHacks

*Back End Developer*, January 2019

Technologies: Express, Firebase, Android, embedded systems

- CruzHacks is a competitive hackathon where students must develop and present a product in 36 hours.
- Built a system to help deter the growing problem of bike thefts on our campus by tracking bike locations and alerting the owner's smartphone when tampering is detected.
- The system consisted of three distinct parts:
  1. The GPS and on-bike hardware.
  2. A Google Cloud based Express.js middleware and Firebase database.
  3. An Android application to alert the user and display the bike's location.
- Programmed middleware in JavaScript with Node.js and Express.js to receive data from hardware devices and to manage and update the Firebase.
- Implemented Google Maps API and Firebase API in an Android app to display data in real time.

#### Cepheid - Sunnyvale, CA

*Software Quality Engineer Intern*, January 2017 - September 2017

- Implemented a new electronic traceability system to more accurately track software requirements from conception to release.
- Diagnosed and corrected problems with software installation.
- Planned and executed various tests to implement external software per FDA and company processes.
- Designed new qualification tests to effectively ensure the new software will meet expectations.
- Authored new procedures that document how to use the new software.
- Consulted and informed the software engineering team about procedural changes within the software development process.

- Trained new hires and temps on company and testing procedures.
- Created, reviewed, and validated procedures and test protocol for software used in molecular diagnostic testing.

**Cepheid - Sunnyvale, CA**

*Software Quality Technician Intern*, May 2016 - August 2016

- Executed validation and qualification tests on molecular diagnostic software.
- Wrote concise and informative software defect reports when issues were discovered.
- Supported the software engineering team to inform and investigate software design issues and errors.
- Improved the computer imaging process, a common task, from taking 2 hours to a few minutes by reformatting test machines to store images on the local hard disk.