

# Corey Mason

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## EDUCATION

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### University of California, Davis

Bachelor of Science in Computer Science; CS GPA: 3.66

2016 – 2020 (*expected*)

Davis, CA

## EXPERIENCE

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### Junior Software Engineering Instructor

Horizons School of Technology

Summer 2017

San Francisco, CA

- Designed coding experience for over 120 undergraduate students by revising exercises for fullstack web technologies (Node.js, Express, MongoDB, React, Redux), mobile (React Native), and data structures.
- Refactored a tutoring Slack bot by building a modular asynchronous codebase using Promises and implemented a customized priority queue using Redis Lists.
- Held 1-to-1 office hours related to React Native, hobbyist electronics, and code architecture involving React/Redux, Unity, and Firebase.

### Software Engineer

Westmont Robotics Team

2013-2016

Campbell, CA

- Developed, released, and promoted a team website that has since served instrumental in acquiring company sponsorships.
- Recruited and taught new members of the programming team Java and source control, tripling its size.
- Programmed image recognition, one of the most difficult aspects of the robot.

## FEATURED PROJECTS

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### Keap App

2017

- Designed platform architecture for an ebay-like classifieds app and corresponding backend server.
- Created an initial prototype in React Native with fully functional authentication and search features.

### Tutoring Slack Bot

2017

- Implemented and optimized commands in a Slack bot to assist connecting TAs to students in real time.
- Redesigned database architecture in order to more efficiently make connections and handle data across multiple classes/sections; prevented useless repetitions of data that were becoming a problem in use.
- Created a more modular, Promise based architecture that eases future software modifications that may need to be conducted by other developers in the project's life cycle.

### UC Davis Formula One Team Data Logger

2016

- Programmed a live updating web interface for the club's data logger with a team of two other students.
- Hosted locally on a MEAN stack and reads data from the serial port to be stored/graphed.

### Smart Alarm Clock

2015

- Built and programmed an internet enabled alarm clock that wakes naturally with light and sound.
- Developed a clock admin web interface that utilizes jQuery and Javascript IoT APIs.

## AWARDS

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### First Place, Jane Street Electronic Trading Competition

2017

- Created a trading algorithm that outperformed 30 other teams comprised of other engineering interns.

## TECHNICAL SKILLS

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### Languages

— C++, C, Java, JavaScript/Node.js

### Web/Mobile Development

— React, Redux, React Native, LAMP, MERN, HTML/CSS

### Databases

— MongoDB, Redis, MySQL

### Tools

— Linux, Git, Gulp, Bower, Travis CI