

Corey Mason

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EDUCATION

University of California, Davis

Bachelor of Science in Computer Science; CS GPA: 3.66

2016 – 2020 (*expected*)

Davis, CA

EXPERIENCE

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 both 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

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

First Place, Jane Street Electronic Trading Competition

2017

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

TECHNICAL SKILLS

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