Corey Mason

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EDUCATION

University of California, Davis *2016 – 2020 (expected)*
Bachelor of Science in Computer Science; CS GPA: 3.66 *Davis, CA*

EXPERIENCE

Junior Software Engineering Instructor *Summer 2017*
Horizons School of Technology *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 *2013-2016*
Westmont Robotics Team *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