

# Brian Sitenga

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## EDUCATION

### Bachelors of Science in Computer Science and Business Administration

University of Southern California • Los Angeles, CA • Aug. 2018 – Present

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## EXPERIENCE

### Undergraduate Fellow

#### Horizons Engineering Fellowship

June 2019 – Aug. 2019, New York, NY

- Researched web development and security under senior infrastructure and frontend engineers
- Integrated backend components with React applications using the MERN Stack

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## SKILLS & TECHNOLOGIES

**Backend Technologies:** Express.js, GraphQL, MongoDB, Node.js, NPM, WebSockets

**Frontend Technologies:** Bootstrap, Flexbox, jQuery, React, React Native, Redux

**Languages:** C++, CSS3, HTML5, Java, JavaScript (ES6)

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## PROJECTS

### Curent (React, Express, MongoDB, Passport.js) – Intelligent News Quiz

- Built a data scraper to find major key words in featured New York Times articles
- Designed a backend to categorize key words and generate quizzes under each category
- Integrated mongoosejs with MongoDB to model and store user login information, preferences, scores, and streaks

### Trackr (React Native, React Router, MongoDB, chrome.\* API, Chart.js) – Chrome Extension Tracker

- Developed a chrome extension to track user screen time, storing website data and account information in MongoDB
- Integrated chrome.\* API with Chart.js to visualize screen time data and filter unwanted websites
- Built a mobile application to access account data on the phone with React Native

### CoolDox (Draft.js, Electron, WebSockets) – Collaborative Rich Text Editor

- Developed a real-time, multi-page desktop application with shared cursor highlighting and live editing
- Designed an Express.js backend to interact with a MongoDB database to store user and document data

### StuQueue (Java, jQuery, Apache, MySQL) – Homework Help Queue for USC Students

- Architected a queuing system for users in multiple organizational levels to receive faster homework help
- Stored administrator information and queue data in a Google Cloud MySQL database

### TvTyper (React, React Router, Redux, WebSockets) – Competitive Typing Game

- Leveraged React Redux to manage and update game state in real-time
- Utilized WebSockets to allow multiple users to join and compete in private rooms

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## INVOLVEMENT & EXPERIENCE

### Horizonite Hackathon – Project Manager

NY Hackathon • Aug. 2019

- 2nd Place Winner

### Sigma Phi Delta – Vice President

Professional Engineering Fraternity • Aug. 2018 – Present

- Supervised logistics for all major social and professional events
- Coordinated with USC faculty on major administrative decisions

### Teach For Los Angeles – Volunteer Tutor

USC Mentoring Organization • January 2019 – Present

- Conducted group tutoring sessions and created lesson plans with other volunteers
- Taught mathematics and basic computer skills to children and high school students