**Full-Stack Web Application & React Native Developer**

Versatile software engineer with a focus on JavaScript based Web and mobile applications with professional experience using front and back-end technologies. From cross-platform mobile applications using the popular React framework to human-centered Web applications powered by React and Node.js, I've worked with the most innovative technologies in the industry to build valuable business solutions. I am dedicated and hungry for knowledge and experience with cutting-edge technologies, techniques, and all things JavaScript.

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| **CORE COMPETENCIES** |

JavaScript  Typescript  React.js  React Native  Node.js  HTML5  CSS3  Redux  SQL

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| **EXPERIENCE AND ACHIEVEMENTS** |

**SyncOnSet Technologies Inc., Boston, MA Aug 2018—Present**

**Software Engineer —** Simplify work for film studio crews around the world by collaborating with designers and customer service to build tools customers will love.

* **Crew Tools -** The Emmy Award winning continuity platform. A SPA built with a variety of tools including Typescript, React, Redux, MySql, and Node.js.
  + Leverage advanced tools like Redux middleware, selectors, and React Grid to create robust, testable, maintainable features including interactive data tables, forms for editing data, and department selection
  + Participated in the Agile development process using scrum
* **Asset Hub -** The first digital system designed for studios to manage physical assets, from production to warehouse to events. A SPA built with Angular, Typescript, MySql, and Node.js.
  + Swiftly pivoted to this project to help build out support for a new client with the most assets ever attempted to track, Warner Bros.
  + Greatly reduced load times by limiting the number of assets requested at a given time and lazily loading large lists of data
  + Implemented persisted pagination for the main asset table
* **Crew Tools Mobile** - Companion to the Web app and rebuild of the old mobile app with React Native, Typescript, and SQLite.
  + Implement designs from scratch to specification for Scenes, Characters, Changes, Looks, Actors, and Sets using the latest techniques such as React Hooks and Context
  + Make forms with reusable components to interact with changes, looks, actors, and inventory
  + Developed optimal, large lists of data including pictures

**Partners Connected Health, *Boston, MA*  June 2016—June 2018**

**Programmer Analyst** — Plan and build HIPAA compliant Web and mobile applications to client specifications as part of a Scrum Agile team.

* ***SleepyTime***- Full SDLC - iOS app built using React Native which walks parents through the process of sleep training their child as part of a research study to determine the technique’s efficacy.
  + Designed novel component architecture without Redux, reducing bundle size by 4.3%
  + Researched and recommended most suitable open-source tools, significantly increasing speed of development and ensuring a timely release
  + Built controller for notifications around starting the bedtime routine and checking in about progress, which ranked as the second most complex feature
  + Developed new feature for an npm package in use, avoiding major loss of development time
  + Advocated using ES6, ES7, and ES8 techniques to achieve more elegant, readable implementations
* ***Stencil*** - Full SDLC - Cross-platform (iOS, Android) React Native app which allows participants to take recurring surveys as part of a research study. It is integrated with a HIPAA compliant data-capturing Web application called REDCap so that researchers can easily manage their survey(s) and interact with the resulting data in a familiar way.
  + Championed best practices such as component prop validation, code styling based on the Airbnb guidelines, and a new structure of unit testing with Jest, enabling 50% more test visibility and 25% less bugs during development
  + Architected dynamic components such as the survey questions and survey itself to handle the many different types of questions a researcher could ask, saving hundreds of lines of code
  + Implemented cross-platform controller for notifying participants about their surveys, saving ~50 lines of platform-specific code
  + Deployed an https enabled Node.js application server to store sensitive data like our REDCap API token and project identifiers, adding 3 vital layers of security.
* ***Diabetes Management Web Portal*** - Provide a responsive front-end experience using Twitter Bootstrap and jQuery to help clinicians monitor diabetes patients through data integration and visualization.
  + Collaborated with an external team to negotiate and confirm most scientifically accurate requirements, supplying data which clinicians voted was substantial.
  + Leveraged FHIR API and database as a back-end for patient data in compliance with federal HIPAA medical data privacy and security regulations.
  + Performed system tests on portal and integrated mobile app to uncover critical bugs before deploying to production.
* ***iTrack Fitness*** - Full SDLC - Automated script which precisely predicts study participants’ levels of physical activity, and encourages participants to consistently meet their activity goals.
  + Lead development of a range of features from an original Node.js implementation of REDCap’s API, to the aggregation of that data, as well as integration of an external algorithm written in R.
  + Devised an innovative system applying REDCap, Twilio, Fitbit APIs, and OAuth2 protocol for patient data storage in compliance with federal regulations, intervention text messaging, monitoring physical activity data, and authentication.
  + Wrote UML and technical design documentation which later contributed to a research paper, soon to be published.

**Residential Networking, Bridgewater State University, *Bridgewater, MA* September 2014—May 2016**

**Residential Networking Technician**

* Manage campus network infrastructure and residence hall equipment
* Leverage enterprise support and collaborate with senior technicians to solve advanced networking issues

**Information Technology,Bridgewater State University, *Bridgewater, MA* August 2012—May 2016**

**Senior IT Consultant**

* Assist customers with a variety of technical issues, tracked using a ticketing system, and manage campus equipment

**Education**

**Bridgewater State University** - B.S. in Computer Science, Minor in Mathematics