

TODD IVEY

SOFTWARE ENGINEER

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SKILLS

Full stack web application development using RESTful architecture and Agile development processes. Knowledgeable in JavaScript, NodeJS, React, React Native, Redux, Google Firebase, Express, Sequelize, Webpack, NPM, Heroku, Postgres, SQL, Jasmine, Mocha, Chrome Extensions, Handtrack.js, HTML5, and CSS3. Git workflow executed through feature-based branching.

EDUCATION

- **SOFTWARE DEVELOPMENT IMMERSIVE BOOTCAMP**
 - Fullstack Academy
 - 2019
- **B.S. // AEROSPACE ADMINISTRATION**
 - Middle Tennessee State University
 - 2007-2011

PRIOR WORK HISTORY

Management of the airfield at two commercial airports. Responsibilities included but not limited to inspection of airfield for debris, supervision of staff, first response to emergencies, snow removal coordination, condition reporting, and office responsibilities.

- **AIRPORT OPERATIONS SUPERVISOR**
 - Chicago-Midway International Airport
 - 2016-2019
- **AIRPORT OPERATIONS OFFICER**
 - Greenville-Spartanburg International Airport
 - 2011-2016

PROJECTS

- May 2019
Chicago

● **Pop 'n Spots / popnspots.com**

Web app built by a team of four over two weeks that provides the user a data visualization of current busy-ness of various businesses.

 - Application built with React, Redux, Google Maps API, and GeoHasher for the front-end with Google's Firebase Cloud Platform and Apify for the back-end.
 - Individual contributions include building Firebase real-time database with over 10,000 points of data, developed algorithm to create relationships in a non-relational database, created redux stores for state management, and primary testing and debugging.
- April 2019
Chicago

● **graceHOPper / gracehopper-abmt.herokuapp.com**

E-commerce single page web site selling over a thousand products.

 - Built in a week by a team of four using React, Redux, Express, and Sequelize.
 - Individual contributions include the full stack of category filtering and persistent checkout component that enables the user to retain their cart until checkout, calculate price based on updated quantity, and capture the price bought at for past-order lookup. Created admin middleware that would check if user had certain rights based on the information in the database.
- April 2019
Chicago

● **Chrome Force Controls / github.com/toddivey/Chrome_ForceControls**

Motion control web browsing for Chrome.

 - Solo project built over a five-day sprint using Handtrack.js, Tensorflow, and Chrome Extensions.
 - Allowed for browser control through motions detected by the user's webcam. Users could scroll, refresh, and move forward and backwards through their browser history with simple hand motions. Solved issues regarding detecting users motions to trigger the corresponding event without other events firing.