

Brandon Manke

COMPUTER SCIENCE MAJOR

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Work Experience

State Farm

SOFTWARE DEVELOPER INTERN

- Worked in an agile environment developing web services to support State Farm agents.
- Improved modularity of code by decoupling database wrapper from web service to its own SOAP based web service.
- Increased team's velocity by introducing beneficial Git practices & branching models.
- Made production changes that provided a more efficient way for contact center reps to obtain claims information.

Bloomington, IL

May 2018 - May 2019

Freelance Web Development

FULL STACK DEVELOPER

- Taught myself JavaScript and created a source of income while attending school full-time.
- Created and deployed custom web applications for numerous clients.
- Built and maintained a variety of applications that supported thousands of users and utilized the Steam API.
- Implemented RESTful APIs written in Node.js and Express.

Chicago, IL / Remote

April 2016 - May 2018

Education

Illinois State University

B.S. IN COMPUTER SCIENCE

- Cumulative GPA: 3.8/4.0
- Graduated *magna cum laude*

Normal, IL

Aug. 2016 - May 2019

Projects

CSGO Clicker

TYPESCRIPT, NODE.JS, REDIS, MONGODB, EXPRESS, WEBSOCKETS, DOCKER, DOCKER SWARM

- Scaling backend services to account for 40-50k monthly users.
- Utilized WebSockets to build efficient event based API between client and server.
- Improved pricing API response time and prevented rate limits by caching price data with Redis.
- Modeled document schemas with MongoDB for optimal database performance.

Destiny 2 API Wrapper

JAVASCRIPT, NODE.JS, JEST, TRAVISCI

- Implemented an API wrapper in Node.js for the popular video game Destiny 2.
- Helped Bungie to improve the accessibility of their API with documentation & error handling.
- Deployed project with automated tests and builds using TravisCI.
- Improved unit testing skills and broadened understanding of Test-Driven Development.

Express Session

JAVASCRIPT, NODE.JS

- Contributed to the ExpressJS project for Hack Illinois 2019.
- Added ES6+ Promise support to the sessionStore object in the Express Session Library.
- Ensured backwards compatibility for Node.js versions 0.8.x and up to prevent breaking changes for users.
- Utilized TDD and ensured 100% test coverage for the new changes.

Graph Algorithm Visualization

JAVASCRIPT, HTML, CSS

- Created a website that visualizes the Nearest Neighbor Algorithm on randomly generated graphs.
- Utilized Cytoscape.js library to visualize and draw interactive graphs in HTML5 Canvas.
- Applied knowledge of graph theory to better understand advanced algorithms and the application of graph theory in computer science.

Safe Stroll Android App

JAVA, GRADLE, ANDROID

- Built an Android app that helps people get home safely, by alerting contacts if user is not responsive.
- Collaborated with classmate to design android app for Mobile App Development contest.

Skills

Web Development: Node.js • HTML • CSS • Express • Vue.js • Webpack • Redis • MongoDB

Programming Languages & Tools: JavaScript • Java • C • C++ • Python • Docker • Git • Jest • JUnit • Make