Brandon **Manke**

COMPUTER SCIENCE MAJOR

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Work Experience

State Farm   *Bloomington, IL*
SOFTWARE DEVELOPER INTERN   *May 2018 - PRESENT*
- Working in Agile environment to develop web services to support insurance agents.

Freelance Web Development   *Chicago, IL / Remote*
FRONTEND AND BACKEND DEVELOPER   *April 2016 - May 2018*
- Implemented RESTful APIs written in Node.js and Express.
- Utilized Mongoose to write schemas for a NoSQL database (MongoDB).
- Created and deployed custom websites for clients.

Education

Illinois State University   *Normal, IL*
B.S. IN COMPUTER SCIENCE   *Aug. 2016 - May 2019*
- Cumulative GPA: 3.81/4.00
- Dean's List Spring 2017, 2018
- Member of Competitive Programming Club
- Member of Mobile Development Club

Projects

CSGO Clicker

JAVASCRIPT, NODE.JS, REDIS, MONGODB, EXPRESS, WEBSOCKETS, DOCKER
- Designing RESTful APIs with Express for optimal communication between microservices.
- Scaling backend services to account for 20-30k monthly users.
- Modeling MongoDB Schemas around embedded versus reference based relationships for the most optimal document structure.

Destiny 2 API Wrapper

JAVASCRIPT, NODE.JS, JEST, TRAVISCI
- Implemented an API wrapper in Node.js for the popular video game Destiny 2.
- Collaborated with Bungie to improve the accessibility of their API.
- Deployed project with automated tests and builds using TravisCI.
- Improved unit testing skills and broadened understanding of Test-Driven Development.

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.

Smart Mirror Raspberry Pi Project

JAVASCRIPT, NODE.JS, HTML, CSS
- Built a smart mirror interface configured with Amazon's Alexa voice assistant.
- Wrote a web server in Node.js to utilize news, weather, and Google Calendar APIs.

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.
- Worked with Google's Gson library to serialize app settings to JSON and a pattern lock view library to secure the app with a passcode.

Skills

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

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