

Matthew W. Farstad

SOFTWARE DEVELOPER · IOT · FULL STACK WEB DEVELOPER

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Motivated, creative, and inquisitive developer with experience in a variety of computer science disciplines. Looking for challenging opportunities to learn from.

Skills

Languages Java, C#, Python, Javascript, SQL, PHP, HTML, CSS

Libraries/Technologies Selenium, JDBC, ODBC, JQuery, JSP, React.js, Hibernate, JavaFX, Swing, Junit, Git, JSON, MQTT, NATS, Node.js, Native Abstractions for Node.js, Webpack, Babel, Flow, ESLint, NPM, AJAX, Electron.js, Docker, MS Azure, Redis, Redux, AWS

Software Eclipse, Visual Studio, TFS, Test Studio, JavaFX Scene Builder, VS Code, Windows, OSX, Linux, EC2

Experience

Semireg Industries LLC

Winona, MN

INDEPENDENT CONTRACTOR

May 2019 - Present

- Developed flexible framework for emulation of label printers with Python using Facedancer21 library.
- Created MQTT-based label printer emulation software using Python and Node.js.
- IoT work involving Docker, Node.js, and Microsoft Azure IoT.
- Created mobile applications with React and Redux.

Winona State University

Winona, MN

SOFTWARE TESTER/ DEVELOPER

October 2016 - May 2020

- Cross compiled Python modules written in C from x86 to run on MIPS Linux for use in router.
- Developed Android applications using React Native to supplement device portal.
- Developed UI unit tests for proprietary device management applications.
- Tested new releases of proprietary software and wrote detailed bug reports for the engineering team.
- Developed responsive SQL query builder front end for database for ease of use throughout company.

Chegg.com

Winona, MN

ONLINE PROGRAMMING TUTOR

March 2019 - Present

- Approved to tutor Java, Python, and Computer Science.
- Developed curriculum for students on a case-by-case basis.
- Received a 100 % satisfaction rating over 60 sessions (as of December 12th, 2019).

Education

Winona State University

Winona, MN

B.S. IN COMPUTER SCIENCE // GPA: 3.43

August 2016 - May 2020

Relevant Courses

Networking and Telecommunications, Applied Database Management, Database Systems Design, Intro to Web Programming, Fundamentals of Distributed Application Development, Software Engineering, Computer Systems, Data Structures, Mathematical Foundation of Algorithms, Human Computer Interaction, Embedded Systems, Computer Security, Operating Systems, Theory of Computation, Machine Learning, Principles of Programming Languages, Advanced Networking, Practicum in Computer Science

Extracurricular Activity

AWS Certification

Online

COURSERA.ORG

December 2019

In depth Amazon Web Services certification course taught by Amazon employees on manipulation of AWS to provide robust, maintainable, and widely available solutions for a variety of business practices.

JZODD

Winona, MN

STRING-BASED MIDI COMPOSITION USING JAVAFX.

January 2019 - March 2019

Available for Download on Github