Ruoyu(Rory) Zhuang

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Summary

Result driven, Java application developer with 5 years experience in software development. MERN stack mobile and web application developer. Had experience planning and managing software projects and delivering products to meet customers needs. Currently looking for an entry level software engineer position.

Work Experience

Application Developer/Data Analyst, Measurement & Evaluation Center, UH; Houston, TX – Dec 2016 - Dec 2018

- 1 day system recovery from a major server hard drive failure by migrating from older database.
- Processed 47,000 evaluation form submissions every semester by fixing website bugs and improving database performance in a timely manner.
- Maintained ASP.NET website and Microsoft SQL server. Teachers evaluation data analyst. On-Call IT support.

Software Developer/Project Coordinator, Endothelix, Inc; Houston, TX – 2017, 2018 Summer

- Deployed a major application update and cloud management platform 2 months ahead of the schedule by successfully communicating with engineers and project managers in a partner company.
- Achieved 80% improvement of colleagues research productivity by developing a graphical medical instrument algorithm simulator and data processor with Java and JavaFX technology.
- Co-authored two scientific research articles.
- Android Embedded System development. AWS management. Medical algorithm development

Education

University of Houston; Houston, TX – M.S in Electrical and Computer Engineering; Dec 2018. 3.79/4.00
Rose-Hulman Institute of Technology; Terre Haute, IN – B.S in Electrical Engineering, minor in Computer Science; 2015

Skills

Java (5 years), SQL (5 years), Object-Oriented Programming (5 years), .NET(2 years), C# (2 years), C++ (2 years), Agile Development (2 years), JavaScript (2 years), MongoDB (2 years), HTML (2 years), CSS (2 years), Python (2 year), React (1 year), AWS (1 year), Android & iOS (1 year), Swift (1 year), Objective-C (1 year), REST Api (1 year)

Projects

Claystone MERN Stack Application
Developed and deployed a MERN stack application for a real estate company on both Heroku and Amazon cloud.

VENDYS Vascular Function Testing Simulator
Implemented and deployed a graphic medical device simulator with JavaFX technology.

Dynamic Streamline Visualization
Implemented dynamic flow and streamline visualization with C++ and OpenGL

Flea Market App on iOS Platform
Created an information exchange app with Swift and Firebase

Robot Arm Object Relocation
Used C and MatLab with robot arm to track and relocation objects

FPGA Game Development
Used Verilog to develop a calculator game with Altera DE2-115 board

Temperature Sensor and Stepper Motor
Used a micro controller and I2C bus with sensors and display