Brannon Brakefield

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KEY WORDS

Computer Science Degree, Internship Experience, C/C++, C#, ASP.NET MVC, Back-end Web Development, Object Oriented Programming, Java, Python, MySQL, Git, Google Protobufs, Software Testing, Agile, Scripting, Software Documentation, Eagle Scout

EDUCATION

University of Alabama at Huntsville   Huntsville, AL
Bachelor of Science in Computer Science w/ Math Minor   May 6th, 2018
- Graduated *cum laude* with 3.51 major GPA
- Awarded 4 year Academic Scholarship for Tuition valued at $22,000.
- Dean's List 2016

RELEVANT COURSEWORK

Data Structures, Object-Oriented C++, Object Oriented Java, Analysis of Algorithms, Intro to Unix, Intro to Databases, Intro to Digital Design, Programming Languages, Network Security, Assembly Language, Calculus A, Calculus B, Calculus C, Linear Algebra, Statistics, Number Theory.

SKILLSET

Programming Languages: C#, Python, C/C++, Java, SQL
Technical Skills: Data structures, Design Patterns, Agile Software Development, ASP.NET MVC, Google Protocol Buffers, Json.Net, MySQL, Pandas, Matplotlib, Unit Testing, OpenCV, UML, HTML, CSS, jQuery, Bootstrap
Software Packages: MS Visual Studio, NetBeans, PyCharm, Git, Microsoft Office Suite, Linux (Ubuntu/Debian), Microsoft Team Foundation Server

EXPERIENCE

Emerson Electric Co.   Knoxville, TN
Software Development Intern   *May 2017 – Aug. 2017*

- Primarily responsible for the development of the back-end sub-system of a prototype web application implemented in C# using ASP.NET MVC and Google Protocol Buffers.
- Verify that assigned software works, satisfies applicable requirements, integrates into the overall system and works properly on target hardware.
- Work with Product Test to identify and/or correct reported discrepancies in assigned software modules.

PROJECTS

Statistics Analyzer   Huntsville, AL
Software Lead, Programmer, Tester, Repo Manager   *Spring 2018*

- Application for Senior Design course. Uses Pandas library to import data from CSV files and calculate statistics relevant to various levels of data measurement. Generated various graphs based on imported data using Matplotlib library. Used Python unittest library to create unit tests for calculation classes. GUI was implemented using PyQt5.