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Objective

To find a full-time, entry-level position in which I can utilize the software development, data science, and other skills that I have gained through school and work experience. I love writing code, but I also enjoy interacting with people and working together to achieve the best possible solution.

Education

Clemson University
Computer Science, B.S.
Current GPA: 3.5
Graduation Date: December 20, 2018

Skills

- **Software Development** - Python, C, C++, Java, Agile
- **Scripting** - Bash
- **Data Science** - Python, R, SQL, Hive, Pandas, Alation
- **Visualization** - Tableau, Matplotlib, Plotly
- **Productivity** - Confluence, Jira, Scrum
- **Other** - Splunk, Node-RED, Raspberry Pi, HTML

Projects

IoT Edge Computing

This past summer I worked on an IoT project at BMW, the goal of which was to determine the effects of edge computing on overall performance as well as network traffic. Edge devices installed on various machines throughout the plant typically send huge amounts of data across the network to a data center, but we found that doing some basic preliminary computation on the device itself (Raspberry Pi or similar) significantly reduced the amount of traffic.

Palindrome Partitioning Algorithm

In an algorithm design course I took last semester, one of our projects was to develop an algorithm that would calculate the minimum number of palindromes that could be used to make up any given input string (e.g. 'racecar' = 1, 'abcde' = 5). Furthermore, the algorithm was required to run in $O(n^5)$ time or better, eliminating the use of recursion. The solution required a dynamic programming approach. The code for this project can be viewed here.

***** To view a more complete list of my skills as well as more projects that I have worked on, please visit the personal webpage I've created at https://epaulz.github.io.

Work Experience

BMW Group – innovation[LAB], Greenville, SC, Summer 2018
IT Innovations and Research Intern
In the innovation[LAB], we researched and experimented with new/emerging technologies with the goal of using them to improve the overall manufacturing process for BMW around the world. My primary project this summer is the IoT project which I have summarize above.

- Key topics: data science, IoT, artificial intelligence, natural language processing, blockchain, python.

BMW Manufacturing, Greer, SC, Summer 2017
Material Control Intern
I worked within a logistics department completing various IT support tasks. I gained experience using Microsoft Excel on a daily basis by modifying existing macro programs as well as writing a few from scratch using VBA in order to increase the efficiency of daily operations. I also used a geolocation service to create a map of the suppliers that were managed by the members of my department.

- Key topics: Excel, VBA, SAP.

Clemson Online, Clemson, SC, Spring 2017
Educational Media and Web Support
Clemson Online is a part of Clemson University which provides highly responsive services in the areas of Faculty Support, Infrastructure, and Production. During the time that I worked there, we were in a phase of restructuring and updating the many web pages that fell under CO's responsibility. I gained in-depth knowledge of working with HTML & CSS through maintaining, updating, and building new web pages. Many of the pages that I worked on are used every day by Clemson students and faculty.

- Key topics: HTML, CSS.

References
Available upon request.