James M. Howerton

505 Valley Rd Ext B, Charlottesville, Virginia 22903 | jh3df@virginia.edu | (804) 229-1108
Jameshowerton.dev | github.com/thejimster82 | linkedin.com/in/james-howerton

Education

University of Virginia, Charlottesville, VA

M.S. Data Science, *Current GPA: 4.0* 2019-present

B.S. Computer Engineering, *Cumulative GPA: 3.918* 2016-2019

Skills

Proficient In: Python, C, MySQL, PowerShell, Multisim, Ultiboard

Experience With: Java, C++, C#, React JS, R

Relevant Experience

TwinThread, Charlottesville, VA, *Full-Stack Software Intern* Summer 2019

6-month part-time internship including 6 weeks of full-time work. Developed a DevOps tool using PowerShell to automate the deployment of Azure resources for new clients. Developed build and release pipelines for automating the release of Azure Functions, WebJobs, and deployment of C# and javascript code.

Genworth, Richmond, VA, *IT Intern* Summer 2018

12 week IT internship using MySQL and PowerShell to wrangle internal and external Oracle Eloqua email data into SpotFire dashboards used for intelligent decision-making by several parties of management.

Relevant Coursework

Algorithms - *CS 4102* Spring 2018

Conducted a survey of algorithm techniques in areas such as sorting, searching, shortest paths, greedy algorithms, backtracking, divide-and-conquer, and more. Implement these algorithms using Python with a focus on learning new data structures such as heaps and search/splay/spanning trees.

Database Systems - *CS 4750* Fall 2018

Learned the fundamentals of conceptual database design and development using ER models including various forms of constraints. Used MySQL to develop a working relational database for a realistic application.

Embedded System Design - *ECE 4440* Fall 2018

Designed from the ground-up a working heat-lamp PID controller rated up to 1100W. Included designing and printing PCBs for high and low power applications and implementing I2C and SPI device interface protocols.

Honors & Interests

Charles L. Brown Award For Excellence 2019

IEEE HKN Honors Society for Electrical and Computer Engineers Member 2018-Present

Graphic Design: jhowertonart.weebly.com/gallery

Music Production: soundcloud.com/spellmusic