

James M. Howerton

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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