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

Programming Languages - Python **-** C **-** C++ **-** C# **-** SQL **-** PowerShell **-** Java **-** React JS **-** R

Software - Git **-** Unity **-** Ableton Live **-** Photoshop **-** Max **-** Illustrator **-** Multisim **-** Ultiboard

Relevant Experience

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

6-month part-time internship including 6 weeks of full-time work.Worked on web development in React JS, backend work in C# and SQL, and DevOps in PowerShell. Developed in-house tool to automate deployment of Azure Cloud resources.

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

12 week internship using SQL and PowerShell with Oracle's API to wrangle internal and external Eloqua email data for reporting in SpotFire.

Relevant Coursework

Data Science - Machine Learning **-** Data Mining **-** Bayesian Machine Learning **-** Statistical Learning and Graphical Models - Graph Mining

Software Engineering - Algorithms **-** Data Structures **-** Operating Systems **-** Database Systems **-** Advanced Software Development **-** Software Development Methods **-** Computer Networks

Firmware Engineering - Embedded System Design **-** Introduction to Embedded Computing

Projects

Heat Lamp Controller - Together with a group of 3 other students, I designed a device that allows the calibration of local temperature via applying PWM to the power supply of a heat lamp. Through multiple phases of PCB design, firmware programming, and hardware testing, we finished with a working product.

IoT Smart Sensing - I am currently working with one other student on a project involving deploying environmental sensors in and around UVA. We are working with faculty members to finalize a hardware design and plan to distribute the collected data through visualizations that will be publicly available.

Honors

Charles L. Brown Award For Excellence   2019