Austin Sullivan

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EDUCATION:

University of Virginia | Charlottesville, Virginia | May 2020
School of Engineering and Applied Sciences, GPA 3.74

- *Major*: Computer Science, BS
- *Minors:* Engineering Business, Applied Mathematics
- *Currently Taking:* Algorithms (CS 4102), Computer Architecture (CS 3330), Machine Learning (CS 4501), Statistics (APMA 3120)
- *Notable Courses*: Program and Data Representation (CS 2150), Theory of Computation (CS 3102), Digital Logic Design (ECE 2330), Linear Algebra (APMA 3080), Probability (APMA 3100)
- *Activities:* Resident Advisor, Machine Learning Club, Club Dodgeball

University of Auckland | Auckland, New Zealand
Semester Abroad, Fall 2017

Missisquoi Valley Union High School | Swanton, Vermont | June 2016
Valedictorian, GPA 4.25 out of 4.3

SKILLS:

Technical

- Proficient in: Python, Bash, C++, Java, Linux kernel, SQL, Pandas, Numpy, Google Cloud
- Experience with: Mathematica, Matlab, HTML, CSS, JavaScript, React, R, AWS

Professional

- Ability to lead and work collaboratively with a team. Former sports captain and quarterback
- Strong communication skills including comfort with public speaking

RELEVANT COURSEWORK:

Program and Data Representation | CS 2150

- Implemented data structures from scratch including stacks, queues, trees, hash tables, and graphs
- Programmed primarily in C++, though also wrote x86, IBCM, and bash shell scripting
- Explored how data is represented at the bit/byte level during program execution

WORK EXPERIENCE:

Progeny Systems Corporation | Summer 2018

- Wrote an installation script to set up more robust security policies using the linux kernel
- Constructed varying security policies depending on the use case
- Contributed to open source kernel software

PROJECTS:

VTHacks | February 2018

- Created Freight Rate Mate, an application targeted at improving the trucking insurance industry
- Predicted and visualized trucking risks using real-time data and machine learning
- AWS integration including use of Lambda functions, API Gateway, SNS, Machine Learning, and S3

Disrupt the District | March 2018

- Created a system that uses natural language processing to detect bias and emotional arguments made in articles online
- Wrote python and shell scripts that allow for videos from websites to be extracted and analyzed

Kaggle 2018 Bracketology Competition | March 2018

- Built a machine learning model to predict a probabilistic bracket for March Madness
- Wrote iPython notebooks in Datalab to clean data, engineer features, and build a model
- Stored data in Google Cloud, from which I ran SQL scripts in Big Query to filter and extract data