ROBERT MORRISON

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EDUCATION

University of Maryland, College Park May 2020
B.S. in Computer Science & Statistics *GPA 3.5*

Relevant Coursework:

- Machine Learning
- Software Engineering
- Algorithm Design
- Database Design
- Probability Theory
- Data Science
- Comp. Methods
- Artificial Intelligence

EXPERIENCE

Lockheed Martin Jun 2019 - Aug 2019
Software Engineering Intern *Rochester, NY*

- Re-designed, built and tested a data analysis tool in Python used by data scientists and engineers every day
- Overhauled the documentation and fielded maintenance and feature requests for the tool
- Built an internal package management system to boost daily productivity for data scientists, engineers and developers
- Developed statistical models around faults in data transfer systems to assist struggling sectors
- Constructed a proof of concept Kafka cluster visualization tool as a side project

University of Maryland Jan 2017 - Present
Undergraduate Researcher *College Park, MD*

- Received the competitive Maryland Summer Scholars grant which is given to less than 30 undergraduates each summer
- Researched and implemented new data oriented vulnerability detection processes for use in the context of software development using Sci-Kit Learn
- Wrote a full technical report describing experimental design and results along with a poster presenting those findings

National Institute of Standards and Technology Jun 2018 - Aug 2018
Scientific Programmer *Gaithersburg, MD*

- Developed a web scraping tool to harvest solar panel output and power grid usage from utility websites
- Pioneered the overhaul of a 10 year old flame speed analysis program written in C++ to update it to modern code standards and make it more maintainable in the future while increasing the speed of calculations
- Worked with researchers directly to develop tests for the programs and make sure the new methods weren't negatively affecting the accuracy of the results
- Documented the resulting code thoroughly to ensure the future health of the program

Major Projects

- NetZero – An extensible tool to collect, manage, and analyze several data sources; meant to be used when analyzing the efficiency of a house
- Kakuro Solver – A Haskell Kakuro solver built from scratch in less than 20 hours for a class final project
- Trigger Happy – A computer vision enabled smart nerf gun that prevents what would be lethal shots; won HackPSU

TECHNICAL SKILLS

Programming Languages	Python, C++, C, Java, Haskell, Rust, OCaml, SQL
Tools	Sci-Kit Learn, OpenCV, Git, Linux
Other	AutoCAD, LaTeX, MatLab, Agile Methodologies