

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
- 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 (Developed into the netzero project)
- 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

Projects

- NetZero – An extensible tool to collect, manage, and analyze several data sources. Meant to be used when analyzing the efficiency of a house.
- Trigger Happy – A computer vision enabled smart nerf gun that prevents what would be lethal shots. Won HackPSU
- LookOwtBot – A facebook messenger bot that supplies students with timely reminders for their assignments.

TECHNICAL STRENGTHS

Programming Languages

Python, C++, C, Java, Haskell, Rust, OCaml, SQL

Tools

Git, Linux, Windows, Research Processes, Agile Methodologies

Other

AutoCAD, L^AT_EX, MatLab, Microsoft Office