DYLAN Z. FOX

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EDUCATION

University of Maryland, College Park Expected: May 2019
College of Computer, Mathematical, and Natural Sciences Overall GPA: 4.0
Bachelor of Science, Computer Science
Advanced Cybersecurity Experience for Students (ACES) Honors College
Full Banneker-Key Scholarship Recipient

Relevant Coursework: Algorithms, Organization of Programming Languages, Discrete Structures, C and Assembly, Software Reverse Engineering, Object-Oriented Programming, Differential Calculus

JOB EXPERIENCE

BD Diagnostic Systems Sparks MD
Software Engineer Intern May 2017 – August 2017

- Assisted in the development of the next generation InoqulA+ Total Lab Automation software
- Configured the team build server for this project, utilizing Node.js, .NET Core, and VS Team Foundation Server to allow for constant upkeep and maintenance of code
- Developed multiple scripts to build project solutions and websites under many types of environments

Johns Hopkins University QuarkNet Center Baltimore, MD
QuarkNet Summer Research Intern June 2015 – July 2015

- Researched current theories of particle physics and astrophysics with a specialization in baryonic asymmetry
- Analyzed raw data from the Large Hadron Collider in order to reconstruct the mass of multiple bosons
- Assembled and calibrated cosmic ray detectors in order to experimentally determine the mean lifetime of a muon brought to rest in a scintillating material

PROJECTS

Honeypot Project Fall 2017

- Assisted in development of a honeypot, in which we could monitor attackers compromising a container
- Developed bash scripts to process very large amounts of data from thousands of separate attacks
- Utilized statistical analysis in hopes of finding a correlation between GDP of attacking country and attack frequency

Gravitational Simulator Fall 2016

- Demonstrates Newtonian Gravity and Kepler's laws of Planetary Motion with the creation of a free space physics environment in which the user can generate point masses

Administrative Enrichment Program Fall 2014 – Spring 2015

- Collaborated on and developed software that is currently implemented at my high school
- Allows teachers and administration to expedite the process of running the school's enrichment period, which accounts for thousands of students having the ability to sign-up for a study period in any teacher's classroom daily

ACTIVITIES

University of Maryland RHA Senator, Representative Fall 2016 - Spring 2017

- Represent the North Hill Area Council in the Residence Hall Association Senate
- Legislate and vote on resolutions affecting the entire UMD student body, including transportation, dining, sustainability, and residence hall maintenance

SKILLS

- **Languages:** Java, C/x86 Assembly, Python, Ruby, Batch, OCaml, Prolog, Bash, Git, HTML
- **Software:** Eclipse, Pandas, Visual Studio TFS, Github, Node.js, MS Office, VirtualBox\VMWare, NumPy