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**Charles Bangert**

**EDUCATION:**

***University of Maryland | College Park, MD Expected Graduation: May 2020***

*Pursuing B.S in Computer Science and a Minor in Technology Entrepreneurship*

* Public Leadership Scholar: 2-year program aimed at developing leadership/project management skills, along with Public Policy coursework. Culminated in a capstone where I led a small oyster restoration project
* Hinman CEOs program: 2-year Living-Learning program intended to develop business leadership skills, particularly dealing with startups

**PROFESSIONAL EXPERIENCE:**

***Triangle Experience Group | Arlington, Virginia*** ***Summer 2018***

Job Title: Software Engineering Intern

* Developed, tested and manufactured a less expensive and more secure cross domain solution for deployment at various agencies within the Department of Defense
* Implemented mitigations in the source code (in C) for vulnerabilities exposed by the HP Fortify scan. I achieved this ahead of schedule and within the first month of my start date. This solution is currently deployed at JSOC, the Pentagon, J6, etc.

***Adapt OS | Remote (Startup) Spring 2019***

Job Title: Software Engineering Intern

* Implemented a proprietary lossless compression algorithm in C++ utilizing a Bayesian ladder, competed for the [Hutter Prize](https://en.wikipedia.org/wiki/Hutter_Prize)

***GP Strategies/John Deere | Columbia, Maryland Summer 2019***

Job Title: Contract Software Engineer

* Charged with developing and maintaining the Integration Test suite (Java with Spring libraries, Gherkin) for the John Deere Custom Performance platform

**TECHNICAL SKILLS:**

***Programming Languages***

* Java, C, Ruby, Javascipt, Python, SQL, OCaml, Rust, MATLAB, MIPS and AVR Assembly, C++, HTML, CSS, R

***Frameworks and Tools***

* Spring, Gherkin, Ruby on Rails, Git, Google Firebase, Node.js, Express.js, MongoDB, NativeScript

***Other Skills***

* Proficient with REST API’s
* Experience with web scraping, data tidying modeling and analysis
* Data Science- taking Data Science course using the R language with applications to Machine Learning. Additionally, coursework in Bioinformatics dealing with large data sets
* Proficient working with Linux/Unix Operating Systems
* Computer Networks – experience working with UDP video streams and COT feeds, AFT and SFTP file transfer, using Linux tools to configure interfaces
* Strong command of Object-Oriented Programming and design principals

**INDEPENDENT PROJECTS**

***Trading Bot -Python, Zipline, Quandl***

* Created securities trading algorithm based on dual moving average

***Crowdsourced Exercise Database -Node.js, jQuery, Express.js, REST***

* Designed and built basic crowdsourced exercise database with live-updating search

***Crowdsourced Social Concert Webapp – Node.js, Express.js, MongoDB***

**LEADERSHIP EXPERIENCE:   
*Treasurer, IJM UMD* *November 2018 - Present***

* Responsible for helping plan and ensure funding for events to combat human trafficking locally within Prince George’s County and internationally