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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*

* Hinman CEOs Program: 2-year Living-Learning program intended to develop business leadership skills, particularly dealing with startups
* Public Leadership Scholars Program: 2-year program aimed at developing leadership/project management skills, along with Public Policy coursework. Culminated in a capstone project: led a small oyster restoration project
* Dean’s List Spring 2019

**PROFESSIONAL EXPERIENCE:**

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

Contract Software Engineer

* Charged with developing and maintaining the Integration Test suite (Java with Spring libraries, Gherkin) for the John Deere Custom Performance platform
* Discovered and corrected bugs in several of the microservices making up the JDCP system

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

Software Engineer

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

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

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. Achieved ahead of schedule and within the first month of my start date. This solution is currently deployed at JSOC, the Pentagon, J6, etc.

**TECHNICAL SKILLS:**

***Programming Languages***

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

***Frameworks and Tools***

* Spring, Linux/Unix Operating Systems, 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
* Extensive coursework in Machine learning and Bioinformatic Algorithms
* 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 – Fall ‘19***

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