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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 Citation: 2-year program aimed at developing leadership/project management skills, along with Public Policy coursework. Culminated in a capstone: 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 (JDCP) platform. These tests are currently in use on the software in every John Deere factory and dealership around the world.
* 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, Python, C, Ruby, Javascript, SQL, OCaml, Rust, MATLAB, MIPS and AVR Assembly, C++, HTML, CSS, R

***Frameworks, Tools and Technologies:***

* Spring, Linux/Unix Operating Systems, IBM DB2, MongoDB, Gherkin, Ruby on Rails, Git, Google Firebase, Node.js, Express.js, Android SDK

***Other Skills***

* Extensive coursework in Machine Learning, Computer Vision, and Bioinformatic Algorithms
* Proficient with REST API’s
* Experience with Web Scraping, Data Tidying, Modeling, and Analysis
* Strong command of Object-Oriented Programming and Design principals

**INDEPENDENT PROJECTS**

***Trading Bot -Python, Google Cloud, Jupyter Notebook***

* Creating futures trading algorithm using Principal Component Analysis and other techniques

***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 2019***

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