Brad Bazemore

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QUALIFICATIONS PROFILE

Self-motivated, meticulous **Software Engineer** with relevant education and experience to meaningfully contribute to long-range operational objectives.

- **Software Solutions:** Experience building cyber security software and web applications that control robotics. Built interface for PLC devices to connect devices to the industrial systems.
- **Communication & Leadership:** Excel at liaising with clients, engineers, and management. Convey with ease complex concepts to non-technical team members. Given more than 10 conference speeches and asked to guest lecture for computer science department. Published by IEEE, ACM, ASABE, and CRC and co-authored textbook chapter with Georgia Tech. Lectured and assisted several undergraduate classes. Creating new UGA class to teach students about the internet of things.

Core Technologies:

Environments:	ROS, Node, Meteor, Apache Spark, Weka, MongoDB, MySQL, Angular 2
Languages:	Java, JavaScript, TypeScript, Scala, Python, C/C++, Geo/JSON, Arduino, HTML, CSS, Bash, SQL
Applications:	MS Office (Word, Excel, Outlook, PowerPoint), Sketch Up, Photo Shop
Tools:	Linux/Unix/Mac, Windows, Docker, Ubuntu Core, Zephyr
DevOps:	Git/GitHub/GitLab, Travis CI, Codacy, Snyk, David, Gulp

EDUCATIONAL BACKGROUND

Bachelor of Science in Computer Science – 2015
Georgia Southern University, Statesboro, GA

EXPERIENCE HIGHLIGHTS

University of Georgia, Athens, GA

Software Developer/Research Assistant, 5/2015 – Present

Technologies: ROS, Python, C++, OpenCV, Full Stack (MEAN, Meteor), MongoDB, Arduino, Modbus, Linux, Scala, Zephyr

Develop the robotic technology required to autonomously collect data to monitor crops in a field or orchard.

- Created an automated tractor to find a field location and deploy sampling system to take plant and soil samples
- Determine which pressure sensors, motion sensors, and LIDAR aid rover and accommodate the field environment
- Created software that controls the gas engine to determine its PID control loop
- Troubleshoot physical hardware, a computer network, and software written in four programming languages
- Contributed to SciKit-Image computer vision library

Oak Ridge National Laboratory, Oak Ridge, TN

Software Developer/Research Intern, 6/2014 – 12/2014

Technologies: Weka, Java, Hadoop, SQL, Python, Bro IDS, Argus

Worked in the computational data analytics group solving pressing cyber security and power reliability problems. Analyzed data from a simulated power grid to search for trends.

- Developed machine learning methods to detect cyber-attacks on the grid
- Created tools for law enforcement and the FBI to stop the spread of malware and illicit materials on the internet