

# Christian Batausa Bush

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## Education

MISSISSIPPI STATE UNIVERSITY, STARKVILLE, MS

Computer Engineering, Bachelor of Science, May 2019 - GPA: 3.88/4.0

## Professional Experience

DYNETICS, HUNTSVILLE, AL

Software Developer, May 2018-Aug. 2018

- In the first 2 weeks of internship created a missile signal decoder and showcased prototype to customers
- Developed firmware/software on Xilinx Virtex FPGA and Microblaze soft processor using VHDL/C
- Designed and implemented Python GUI to parse, display, store, and send serial data from concurrent sources
- Utilized Lua/Python to parse pcap data and automate pass/fail tests for Dynetics' in-house missile data link
- Packaged and delivered software, created user guide, installation guide, and functional qualifications test
- Maintained closed loop support with field test engineers to produce an extremely satisfied customer

GLAANCE LLC, STARKVILLE, MS

Co-Founder and Backend Web Developer, Oct. 2017-April 2017

- Led team of 6 students using Agile strategy to successfully meet several deadlines and raise \$15k in 3 months
- Used Flask Microframework (python), SQLAlchemy, and Cordova to create a beautiful web/mobile app.
- Followed best-practices to create RESTful API that responded to the AngularJS front end team
- Created Database Abstraction Layer to separate database from Flask and solve common query issues

MISSISSIPPI STATE - DR. BRYAN A. JONES, STARKVILLE, MS

Undergraduate Research Assistant, June – Aug. 2017

- Created plugin for Atom in Node.JS that allows instant HTML preview of any source code
- Produced multi-threading TCP/IP server in Python to allow several clients to preview results simultaneously
- Implemented beta test of software and presented project to Shackouls Honors College for 3<sup>rd</sup> place award

COX ENTERPRISES, ATLANTA, GA

Project Engineering Co-op, May 2015 – Dec. 2016

- Headed small team to create a regression analysis for company-wide energy/water use
- Assisted national field technician team for IoT generator monitoring equipment to maintain 95% uptime

## Skills

SOFT/FIRMWARE DEV - Python, Bash, PHP, Lua, C++, C, Verilog/VHDL, MPLAB, Vivado, Qt

WEB DEV - HTML/CSS, Flask, AWS, Apache, Postman, Jekyll, SQL, JSON

GENERAL DEV - Agile, Scrum, Object-Oriented Programming, Git, Mercurial

## Honors & Activities

- Team Leader for Senior Design – leading team of 5 to create an integrated glove using stretch sensors
- Community Service – Tutor for freshman engineers, volunteer for a weekly exercise event with children
- HackState hackathon 1<sup>st</sup> place recipient 2017, Undergraduate Research Symposium 3<sup>rd</sup> Place 2017
- MSU Presidential Scholar 2014-2015, 2017
- Pi Kappa Phi New Member and Volunteer Coordinator 2017