

Joshua Booth

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Education:

- McConnellsburg High School - McConnellsburg, PA; Graduated June 2018
- Shippensburg University, B.S. for Computer Engineering; Graduating May 2022
- Fulton County Area Vocational Technical School Computer Repair/Networking
- GPA: 4.04

Work Experience:

- Central Fulton School District Help Desk Technician August 2015 - July 2018
 - Managed and assigned help desk tickets.
 - Troubleshoot and repaired teachers' and students' school and home computers.
- United States Naval Research Laboratory SEAP Intern Summer 2017
 - Worked on the "Tri-service Synthetic Biology Project" using machine learning to identify promoter sequences after parsing them with python.
 - Collaborated with fellow scientists to delegate tasks and share results.
 - Co-authored "[Prediction of Bacterial Promoter Sequences using Machine Learning](#)"
- United States Naval Research Laboratory Employee Summer 2018
 - Simulated radio frequency communications passing through noise using MATLAB.
 - Proved machine learning could identify messages corrupted with noise.
 - Primary author on "[Machine Learning in Radio Frequency Communications](#)"
- Phone Repair Technician August 2016 - Present
 - Managed and communicated with clients for repairing their phones.
 - Inventoried spare screens, batteries, and other phone parts to speed up the phone repair process.
- Website Manager for Buchanan Trail Sporters LLC November 2017 - May 2018
 - Consulted with a local business to create a website and manage the content.
- Agriculturalist May 2013 - August 2015
 - Grew various crops, advertised, and negotiated with various businesses to stock the produce.

Engineering Skills and Notable Projects:

- Programmed serial communications using checksums between a Raspberry Pi and a specialized module for reading outputs of oil wells using C.
- Used machine learning library TFLearn in various applications at the Naval Research Laboratory in Washington D.C. as well as parsed numerous datasets for usage within the neural network using Python.
- Implemented home security using Raspberry Pi cameras to have motion detection and facial recognition using libraries in both Python and C++.
- Constructed website using web2py for managing on-going phone repairs.

Certifications/Achievements:

- CompTIA A+ Certified Service Technician
- OSHA Certified
- Eagle Scout
- Published Scientist
- Ranked 5th Nationally in SkillsUSA Competition for the Information Technology field
 - State champion and district winner in SkillsUSA Competition for the Information Technology field
- 2017 Pennsylvania State Track Meet 300m Hurdles Champion