

Jake Brown

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Education

Tennessee Technological University

Bachelor of Science - Computer Science - Concentration in Cyber Security

Aug 2020 - May 2022

Cookeville, TN

- TTU GPA: 2.96 - Overall GPA: 3.41
- eSports Club (Vice President)
- Noteworthy Courses: Operating Systems, Database Management, Computer Networks

Roane State Community College

Associate of Science - Computer Science

Aug 2018 - May 2020

Oak Ridge, TN

- Cum Laude Graduate - 3.72 GPA
- Phi Theta Kappa Member (Honors Society)

Skills

- **Programming Languages:** Python, Java, C, C#, C++, SQL, x86 Assembly, Bash, JavaScript
- **Platforms / Software:** Linux (Ubuntu, Debian), Unix, Git, AzureDevops, Github, GitLab
- **IDEs:** VS Code, Visual Studios Code, Eclipse, PyCharm, IntelliJ, CLion

Relevant Experience

Science Applications International Corporation (SAIC)

Associate Software Engineer

Jul 2022 – Present

Cookeville, TN

- Leveraged Blazor, MS SQL Server, and the .NET framework to develop projects and applications.
- Created unit stories and unit tests for each of the features produced during development.
- Used Microsoft Azure DevOps to implement features following Agile methodologies.

Thomas Jefferson National Accelerator Facility

Science Undergraduate Laboratory Intern (SULI)

Jun 2021 – Aug 2021

Newport News, VA

- 10 Week Summer Internship through DOE
- The project's objective was to take a preexisting tool that was designed to search JLab websites for sensitive information and provide a report to the user upon completion. While the software was functional, it was written in an older version of the Python language and had some logic flaws.
- My work consisted of updating the code, adding comments, restructuring the logic, fixing programming flaws, and removing unnecessary functionality.
- Additionally, I was tasked with developing high-confidence searches for detecting PII such as US Social Security numbers, UK National Insurance numbers, and credit card numbers from major issuers while also ensuring the program's modularity as much as possible for future upgrades. The program's end result is to provide protection of the lab's data and assist in the safety of its users.

Projects

Senior Capstone

Amazon Alexa Integration - A.O. Smith

Oct 2021 – May 2022

Nashville, TN

- The goal of this project was to link Amazon Alexa support with A.O. Smith water heaters for quality of life improvements for customers. My work included writing multiple skills and capabilities for Alexa to use and interact with the A.O. Smith water heaters.
- The Alexa Skill that I developed for the project was a skill that checked the current operating mode of the water heater.
- For the completion of this project my team and I used C#/.NET, Amazon SDK, Agile, and Scrum.