Isaiah Harville

Software Engineer

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About Me

Technical Skills	C/C++, Python, Java, Git, SQL, Matplotlib, Azure, Django, Writing, Linux
Security Clearance	U.S. Citizen / Secret
Interests	Software, Counter-Intelligence, Aerospace, Statistics

Professional Experience

Research Assistant at UAH

Contracted to Colsa as Software Engineer   Huntsville, AL (February 2023 - Present)

- Wrote software for monitoring Wi-Fi networks
- Utilized Machine Virtualization to run numerous ethical hacking procedures

Analytix

Software Engineer Intern   Huntsville, AL (May 2022 – March 2023)

- Wrote an online containerized Microsoft Azure Python Django program to parse CSV radar data from a number of weapon systems and turn it into downloadable binary data
- Experience working with government customers to guarantee a correct software product
- Worked on several proposals in a research/development capacity, including the Next Generation Short Range Interceptor and Artillery Shell Inventory Database Management

Personal Projects

SS-13 Chemistry Tool   (February 2023)

- Recursively prints the ingredients to a chemical formula into an organized, color-coded, and indented front end
- Temperature, Elements, and Compounds are stored in an SQLite Database
- Utilizes fuzzy-text comparison for ease of use

Ore Statistics   (March 2022)

- Reads the x,y,z coordinates of a Minecraft region file on a 2-dimensional level
- Uses the interpreted data to check 262,144 randomly generated blocks for specific blocks of value
- Obtains coordinates of all blocks and creates a visual chart by determining a percentage by contrasting all coordinates with the coordinates of read precious blocks

Birthday Crowd Problem   (October 2020)

- Utilizes Matplotlib to make a line graph charting the results of Birthday Paradox simulations
- Statistically tests 100 randomly generated crowds 1,000 times to verify results.

Certifications

Microsoft AZ-900 Certification: Azure Fundamentals   (July 2022)
CITI Program: Export Compliance   (April 2023-2024)

Education

University of Alabama in Huntsville   Huntsville, AL (Fall 2022-Expected: May 2025)

- Bachelor of Science in Computer Science
- Minor: Mathematics
- Charger Merit Award

John C. Calhoun Community College   Huntsville, AL (2020–2022)

- Deans List (2021 & 2022)
- Workforce Scholarship (2020-2022)
- Attended via Dual Enrollment during Highschool

Lions Gate Christian High School   Madison, AL (2019–2022)

- 4.0 GPA
- Graduated with 36 College Credits from Calhoun Community College