Isaiah Harville

Software Engineer

[harvillerisaiah@gmail.com](mailto:harvillerisaiah@gmail.com) 256-929-8576 https://github.com/IsaiahHarvi

# 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