

# Joseph Coker

jpcoker3@gmail.com

118 Green Glades  
Ridgeland, MS 39157

601-966-6245 | [www.linkedin.com/in/jpcoker](https://www.linkedin.com/in/jpcoker)

## EDUCATION

### Mississippi State University – Bagley College of Engineering

*Bachelor of Science in Computer Engineering*

Starkville, MS

May 2024

- Cumulative GPA: (3.6/4.0)
- Shackouls Honors College Scholar

### Mississippi State University – Bagley College of Engineering

*Master of Science in Computer Engineering*

Starkville, MS

December 2024

## WORK EXPERIENCE

### United States Army Corps of Engineers – GIS

*Engineering Technician*

Vicksburg, MS

June 2023 - Present

- Utilized machine learning to create a process for identifying damaged houses via drone.
- Monitored over 30 Dams and Levees through generating web scraping scripts.
- Wrote scripts to automate common processes such as quarterly updates of maps spanning various departments.

### Mississippi State University

*Research Assistant*

Starkville, MS

March 2022 – August 2022

- Collected texture and spectra data of various foods to train a machine learning algorithm to sort foods according to their quality and identify any defects or abnormalities.
- Constructed specialized hardware from the ground up to collect volumetric data on sweet potatoes. That data was used to train a machine-learning algorithm to detect abnormalities on the skin of sweet potatoes.
- Built a black box for hyperspectral data collection. Collected data from various foods to detect quality and defects.

### Freight Waves

*Software Development Intern*

Chattanooga, TN

January 2020 – March 2020

- Self-taught web scraping with Python and scraped data from multiple truck reseller websites to create a database of trucks that could be easily combed through to find what the clients needed.
- After successfully implementing the web scraping script, expanded the program to cover more products.
- Final database was comprised of over 50,000 entries and imported into an easily readable Excel format that was integrated into proprietary software

## Projects

### Media Automation Server

*Administrator*

August 2020- Present

- Unraid (Linux based) server for media compression and customization.
- Created YAML files for Plex Meta Manager API integration for poster automation and seasonal collections.
- Utilized Docker and GitHub to pull and customize operations for common processes.
- Over 99% uptime over 18 TB array with data redundancy.

## ADDITIONAL INFORMATION & SKILLSETS

Hardware: Raspberry Pi, Arduino, FPGAs, Microcontrollers, Computer Architecture

Software: VSCode, Anaconda, GitHub, Docker, MATLAB, Xilinx Vivado, ARCGIS, TensorFlow

Programming Languages: Python, C/C++, Assembly, Verilog/System Verilog, CSS/HTML

Awards & Recognitions: MSU Academic Excellence Scholarship Recipient, MSU Design Award, Hanes Growth to Potential Award, Eagle Scout

Interests: Personal Server Management, Car Enthusiast, Culinary Arts



<https://github.com/jpcoker3>