

# Chloe Crozier

(843) 801-3911 | [chloecrozier@gmail.com](mailto:chloecrozier@gmail.com) | [linkedin.com/in/chloecrozier](https://www.linkedin.com/in/chloecrozier) | [github.com/chloecrozier](https://github.com/chloecrozier)

## Education

### Clemson University

*Bachelor of Science in Computer Science (GPA: 3.85)*

**Clemson, SC**

*Jun. '21 – May '25*

- **Minors:** Mathematics and Economics
- **Awards & Honors:** Breakthrough Scholars Program (full-tuition academic scholarship), Clemson University Honors College
- **Clubs & Affiliations:** CUhackit (Treasurer), Alpha Omega Epsilon (Treasurer), ACM (Treasurer), Honors Peer Mentoring

## Experience

### Deloitte

*Cloud Engineering GPS Summer Scholar*

**Washington, DC**

*Jun. '24 – Present*

- Hold an active, secret-level security clearance to facilitate AWS cloud migration, focusing on the Navy's ETL data pipeline.
- Collaborate closely with design and strategy teams for requirements analysis, ensuring applications meet client needs and align with wireframe designs.
- **Skills Used:** AWS, S3, RDS, Lambda, Postgres, Python, TypeScript

### Clemson University School of Computing

*Undergraduate Teaching Assistant*

**Clemson, SC**

*Aug. '23 – Present*

- Host tutoring sessions, hold study-lab office hours, and create academic/professional success resources during the summer semester.
- Instruct, assist, and grade students in introductory courses in object-oriented programming and procedural languages.
- **Skills Used:** C++, C, Leadership, Communication

### Naval Information Warfare Center (NIWC) Atlantic

*Software Engineering Intern*

**Charleston, SC**

*May. '23 – Jan. '24*

- Held active, secret-level security clearance to conduct pre-deployment testing of Marine Corps software.
- Managed NIWC's Integrated Testing Facility (ITF) virtual machines using ESXi, vSphere, and iDRAC.
- Automated 100% testing for the ITF's core applications using Eggplant Functional and developed documentation for an 85% automation transition for manual testing teams.
- Collaborated with developers on testing procedures, addressed VM memory issues, and maintained two patch baselines.
- **Skills Used:** Shell Scripting, VMware vCenter, SenseTalk, Linux

### Clemson Athletics Analytics Center

*Data Analytics Intern*

**Clemson, SC**

*Aug. '23 – May '24*

- Processed IPTAY donation data with MySQL to develop retention prediction models and resulting risk categories.
- Integrated Ticketmaster, Fanatics, Salesforce, and Qualtrics API data for cloud-based marketing dashboards.
- Developed an R Shiny app for Clemson Women's Basketball, using Wehoop and linear regression for performance analysis and strategy development.
- **Skills Used:** Azure DevOps, Tableau, TypeScript, R, MySQL

## Projects

### High-Performance Cluster Computing | *Spack, Slurm, OpenMPI, Linpack*

*Jan. '24 – Present*

- Assemble a four-node Raspberry Pi mini-cluster to simulate Clemson's TOP500 Palmetto Cluster by configuring the environment using Spack to run OpenMPI applications and Linpack benchmarks (maximum performance of ~3.67 GFLOPs).
- Train and prepare with a team of six undergraduates to compete in SC24's international Student Cluster Competition (SCC).

### SC Department of Education's Resume Builder | *OpenAI API, Llama 3, Hugging Face*

*Jan. '24 – Present*

- Engage in Clemson University's Senior Capstone project with Naval Information Warfare Center (NIWC) Atlantic.
- Define specifications for an NLP application to enhance the SC Department of Education's resume builder tool.
- Design the architecture to implement action word generation, sentiment analysis of identified topics, and skill recommendations based on job description interests.

### Embedded Systems Parking Sensor | *C++, Eagle, Energia (IDE), Soldering*

*Jan. '24 – May '24*

- Designed circuit boards and implemented source code to build an embedded motion sensor, using an MSB430 Texas Instruments microcontroller, to transmit parking space occupancy information.

### PocDoc - Healthcare on Demand | *OpenAI API, MapBox, K-Means Clustering, Linear Regression*

*Feb. '24*

- Submission for Georgia Tech's Hacklytics '24.
- Led a four-member team to build a dashboard that triages mobile health units to patients based on the severity of their condition predicted by an interactive medical-trained language model from Hugging Face and an OpenAPI chatbot.

### Cyber-Physical System Anomaly Detection | *Keras, TensorFlow, LSTMs, CUSUM*

*Aug. '22 – Nov '23*

- Analyzed the SWaT dataset, published by iTrust Labs, to design ML models to predict cyber-attacks on the water distribution system.
- Developed four LSTM models (sequential, cascade, single-stage, multi-point) to pinpoint system-wide or sensor-specific attacks.