

Chloe Crozier

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Education

Clemson University

Bachelor of Science in Computer Science (GPA: 3.85)

- **Minors:** Mathematics and Economics
- **Honors & Certifications:** Breakthrough Scholars Program, Clemson University Honors College, AWS Cloud Practitioner
- **Clubs & Affiliations:** CUhackit (Co-Director), Alpha Omega Epsilon (Treasurer), ACM (Treasurer), Undergraduate TA

Clemson, SC

Jun. 21 – May 25

Experience

Clemson University Capstone Program - NVIDIA

Software Developer

- Partner with NVIDIA to develop a full-stack virtual teaching assistant for university classes.
- **Skills Used:** Retrieval-Augmented Generation (RAG), Parameter-Efficient Fine-Tuning (PEFT), NVIDIA NeMo

Clemson, SC

Aug. 24 - Present

Clemson Energy Visualization and Analytics Center (CEVAC)

Software Development Intern

- Develop an interactive chatbot for Clemson Campus Facilities to manage, assign, and submit maintenance tickets.
- **Skills Used:** Llama 3, Classification Modeling, Python, MySQL

Clemson, SC

Aug. 24 - Present

Deloitte Consulting LLP

Cloud Engineering GPS Summer Scholar

- 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

Washington, DC

Jun. 24 - Aug. 24

Naval Information Warfare Center (NIWC) Atlantic

Software Engineering Intern

- 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

Charleston, SC

May. 23 – Jan. 24

Clemson Athletics Analytics Center

Data Analytics Intern

- 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

Clemson, SC

Aug. 23 – May 24

Projects

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

- 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).

Jan. 24 – Present

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

- 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.

Jan. 24 – May 24

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

- 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.

Jan. 24 – May 24

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

- 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 for GT's Hacklytics '24.

Feb. 24

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

- 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.

Aug. 22 – Nov 23