

Carsen Rae Helms

PROFESSIONAL SUMMARY

Entry-level Data Analyst with hands-on experience in Python, SQL, and data visualization through academic and personal projects. Background in data science with exposure to statistical modeling and machine learning concepts. Interested in turning data into clear insights that support team decisions.

EXPERIENCE

Figure AI, Greenville, South Carolina

Robotics Start-Up

Contract Data Creator

03/2026

- Collected and validated high-quality sensor data to support machine learning models for robotic systems
- Collaborated with engineering teams to refine data collection protocols and improve dataset usability
- Identified and resolved data inconsistencies and hardware issues to ensure reliable data capture
- Contributed to process improvements that increased efficiency and consistency of data collection workflows

Byrd's Famous Cookies, Greenville, South Carolina

Cookie Store

Sales Associate

06/2025 – 03/2026

- Engaged customers at the sample bar, using observed purchasing trends and customer preferences to tailor recommendations and support higher sales conversion.
- Tracked daily product demand through POS transactions and customer interactions, informing timely inventory restocking and merchandise adjustments.

All Pro Irrigation, Piedmont, South Carolina

Irrigation and Landscape Company

Office Assistant

06/2024 – 06/2025

- Managed calendars, scheduled meetings, and coordinated travel arrangements, ensuring efficient use of time.
- Created jobs and followed up on 811 calls to North Carolina and South Carolina job sites.

Critical Path Security, Canton, Georgia

Cybersecurity Firm

Junior Analyst Intern

06/2021 – 08/2021

- Developed Python automation scripts to extract, clean, and update cross-platform datasets, reducing manual processing time by 50% and improving data integrity.
- Analyzed daily security log data to detect anomalous patterns, identifying and reporting 25+ suspicious events to mitigate potential system vulnerabilities.
- Conducted preliminary threat analysis by reviewing security reports, flagging suspicious activity, and collaborating with senior specialists to determine next steps.

CONTACT

Greer, SC

(704)238-3945

carsen.rae84@gmail.com

<https://carsenraehelms.com/>

<https://www.linkedin.com/in/carsen-rae-helms/>

EDUCATION

Hollins University, Roanoke, VA

Bachelor of Arts

Data Science and Human Behavior

Minor: English

08/2017 - 05/2022

GPA: 3.34/4.0

Dean's List: 2017-2019

SKILLS

Programming:

- Python (Pandas, NumPy, Matplotlib, GeoPandas)
- SQL

Data Analysis:

- Exploratory Data Analysis
- Data Cleaning

Tools:

- MS Word, Excel, PowerPoint

Activities:

- Omicron Delta Kappa, Member since Feb 2020
- Tri-Varsity NCAA Athlete/Captain
- Eight-time National Champion, World champion Equestrian Mounted Shooter
- All-IWLS (Independent Woman's Lacrosse Schools) Second Team Defense Pick
- Active Member of the Junior League of Greenville

Hollins University Horizon Program, Roanoke, Virginia

Small, Women's Liberal Arts School

Assistant to the Director of Student Engagement 02/2019 – 05/2021

- Introduced and facilitated workshops and mentorship initiatives, empowering non-traditional aged women to achieve personal growth and success; 90% of participants reported promoted confidence and skill development.
- Collaborated with cross-functional teams to plan and execute memorable events, including Senior Horizon Toast, Putting Her Through Dinner, Evelyne Bradshaw Award for Excellence, and Pinnacle Honor Society; exceeded attendance targets by 25% and enhanced guest experience.

Carsen Rae's Horse Maintenance, Monroe, North Carolina

Equine Care Service

Owner/Operator 06/2013 – 08/2017

- Devised and followed a business plan to address the unmet demand for specialized horse care services at national equestrian competitions, resulting in a 40% increase in revenue.
- Streamlined horse care operations by implementing efficient stall cleaning and feeding protocols.
- Partnerships with key sponsors creating an introduction of high-quality grooming equipment, tack, and bath care products.

PROJECTS

New York County Mental Health Expenditure Analysis

- Extracted and cleaned multiple county-level public health datasets (2006–2016) using Python (Pandas) to prepare data for spatial analysis.
- Merged statistical data with geographic boundary files using GeoPandas to create a unified geospatial dataset.
- Developed choropleth visualizations using GeoPandas and GeoPlot to highlight regional disparities across counties.
- Conducted exploratory data analysis to identify spatial trends in mental health indicators.

Interactive Behavior-Prompting Toy (Arduino, RFID)

- Collaborated on the development of an RFID-based interaction system that captured and processed real-time input signals using an Arduino Uno.
- Designed and implemented rule-based logic to interpret RFID input events and trigger appropriate behavioral prompts.
- Structured control flow and decision logic to ensure consistent system behavior based on detected input conditions.

OTHER

- **Inspirit Innovators:** Certificate of Completion AI Innovators Fellowship-Interdisciplinary Data Science Track Spring 2022
- **Qubit by Qubit:** The Coding School IBM Quantum Certificate of Completion Introduction to Quantum Computing Spring 2021
- **Queen Mary University of London:** Hollins Abroad Partnership Inaugural Semester Fall 2019
- **Batten Leadership Institute:** Leadership Certificate 08/2017-05/2019