

# JAMES EMMETT SWEAT III

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## Education

### University of Virginia

*Bachelor of Arts in Computer Science, Minor in Data Science*

Sept. 2020 – May 2025

*Charlottesville, Virginia*

### University of Virginia

*Master of Science in Data Science*

Sept. 2025 – May 2026

*Charlottesville, Virginia*

## Experience

### Associated Press

Fall 2025 – Present

*Election Data Scraping Intern*

*Contract, Remote*

- Assisted in automated web scraping of results across state primaries and general elections, ensuring accurate reporting.
- Developed and maintained Python scripts to extract, clean, and validate election data from multiple sources.
- Collaborated with the AP elections team to troubleshoot data discrepancies in real-time during election nights.
- Contributed to the successful reporting of high-profile elections, supporting data-driven journalism at a national level.

### Marriott

Summer 2024

*Associate Data Analyst Intern*

*Bethesda, Maryland*

- Analyzed 250K+ transactional records to identify revenue trends, shaping strategy across 5 departments.
- Built Tableau dashboards adopted by 20+ managers, improving KPI visibility by 15% and expediting reporting cycles.
- Developed Python scripts with Pandas and Matplotlib to automate analysis of customer behavior and revenue metrics.
- Presented insights in weekly meetings, translating technical findings into actionable recommendations for non-technical stakeholders.

### SuccessKPI

Summer 2023

*Associate Analytics Consultant Intern*

*Centreville, Virginia*

- Automated AWS Lambda workflows for large-scale data cleaning, reducing preprocessing time by over 60 minutes.
- Optimized AWS S3 configurations to improve data retrieval efficiency and cut customer access latency by 20%.
- Performed NLP analysis on 1,000+ customer calls to detect recurring service issues and communication gaps.
- Documented and presented results to consultants, boosting collaboration and operational consistency.

## Projects

### ETL Pipeline | *Creator* | AWS, SQL, MongoDB, Python

Fall 2025

- Built a scalable pipeline with MongoDB and MySQL, storing processed data in AWS S3 enabling centralized analytics.
- Automated extraction, transformation, and loading workflows in Python/SQL, reducing runtime by 30%.
- Improved dashboard refresh performance by 40% by enabling faster queries on S3-stored datasets.
- Proposed and launched the pipeline after identifying bottlenecks, demonstrating initiative in process optimization.

### Dorm Graph and Time Series System | *Co-Creator* | Python, Neo4j, MongoDB, ChatGPT

Spring 2025

- Developed an IoT system integrating Neo4j graph data and MongoDB time series for 8 dorms and 2 mechanical units.
- Built utilities to ingest 10K+ graph relationships and simulate 6 months of synthetic sensor data to evaluate scalability.
- Integrated ChatGPT powered natural language query features, supporting 100+ unique student and staff questions.
- Led a 4-person team, coordinating weekly sprints and ensuring timely completion of milestones.

### Glassdoor Reviews Chatbot | *Creator* | Python, MongoDB, Hugging Face, APIs

Spring 2025

- Developed an AI-powered chatbot to synthesize cultural insights from 5,000+ Glassdoor reviews across 50+ companies.
- Applied semantic embeddings and clustering to analyze unstructured text and highlight recurring sentiment themes.
- Streamlined ingestion pipelines, reducing processing time by 40% and enabling faster API responses.
- Presented project outcomes to 60+ peers, simplifying complex NLP findings for a non-technical audience.

## Skills

**Programming & Databases:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, R, SQL, MongoDB, PostgreSQL, MySQL

**Cloud & Tools:** AWS, Linux, GitHub, APIs, LLMs, Docker, Postman, JIRA, Excel, Tableau, Power BI, VS Code

**Soft Skills:** Analytical Thinking, Communication, Leadership, Collaboration, Problem Solving, Critical Thinking, Time Management