

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

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.

Leadership / Extracurricular

Data Science and Analytics Club

Spring 2020 – Present

Member

University Name

- Collaborated with 30+ peers on workshops, strengthening technical teamwork and professional communication.
- Attended 15+ networking events with professionals from Amazon, Capital One, and other leading companies.
- Delivered 5 project presentations with Q&A, building confidence in technical storytelling to diverse audiences.

Skills

Programming & Databases: Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Neo4j), R, SQL, MongoDB

Cloud & Tools: AWS, Linux, GitHub, LLMs, APIs, JIRA, Docker, Postman, Excel, HTML/CSS, Snowflake

Soft Skills: Analytical Thinking, Cross-Functional Communication, Leadership, Collaboration, Adaptability