JAMES EMMETT SWEAT III

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Education

University of Virginia   Sept. 2020 – May 2025
Bachelor of Arts in Computer Science   *Charlottesville, Virginia*

University of Virginia   Sept. 2025 – May 2026
Master of Science in Data Science   *Charlottesville, Virginia*

Experience

Marriott   May 2024 – August 2024
Data Analyst Intern   *Bethsada, Maryland*
- Delivered analytical services by transforming datasets into strategic insights that guided operational improvements.
- Designed and deployed interactive dashboards in Tableau to monitor KPIs and enhance guest satisfaction tracking.
- Engineered Python scripts with Pandas and Matplotlib to evaluate revenue, performance, and customer behavior.
- Generated actionable recommendations that informed business strategies and elevated operational efficiency.

SuccessKPI   Summer 2023
Associate Analytics Consultant Intern   *Centreville, Virginia*
- Implemented automated AWS Lambda workflows for scalable data cleaning within the SuccessKPI platform.
- Streamlined data storage and retrieval by leveraging AWS S3 for customer-facing applications.
- Conducted speech analytics research to advance NLP capabilities for customer interaction data.
- Optimized Python and SQL scripts to accelerate processing and improve system reliability.

Projects

ETL Pipeline | *Python, SQL, MongoDB*   Fall 2025
- Architected a scalable ETL pipeline unifying MongoDB, MySQL, and local data sources for enterprise analytics.
- Automated extraction, transformation, and loading processes in Python and SQL, reducing runtime by 30%.
- Enhanced query performance and reporting efficiency by optimizing multi-database pipelines.
- Ensured real-time synchronization across platforms, maintaining data accuracy and integrity.

Dorm Graph and Time Series System | *Python, Neo4j, MongoDB, ChatGPT/LlamaIndex, HTML*   Spring 2025
- Developed an IoT monitoring system integrating Neo4j graph data with MongoDB time series streams.
- Constructed modular utilities for graph ingestion, synthetic dataset generation, and live sensor data collection.
- Integrated LLM-powered natural language interfaces enabling multimodal data exploration.
- Delivered an extensible architecture supporting advanced analytics and pipeline expansion.

Glassdoor Reviews Chatbot Project | *Python, MongoDB, Hugging Face Transformers, APIs*   Spring 2025
- Created an AI-powered chatbot that synthesized workplace culture insights from employee reviews.
- Applied semantic embeddings to cluster and analyze unstructured text at scale.
- Automated review ingestion pipelines to deliver real-time organizational culture summaries via API.
- Enabled interactive natural language queries, empowering users with on-demand cultural insights.

Extracurricular

Data Science and Analytics Club   Spring 2021 – Present
Member
- Participated in guest lectures, engaging with industry professionals to broaden knowledge of real-world applications.
- Collaborated with peers on data-driven projects enhancing teamwork and technical communication skills.
- Contributed to group discussions and presentations, strengthening public speaking and analytical storytelling abilities.
- Assisted in organizing club events and mentoring newer members, demonstrating initiative and peer leadership.

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