ANTHONY BAPTISTE

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Education

Northern Illinois University — May 2026
Bachelor of Science in Operations and Information Management, Computer Science Minor — *DeKalb, Illinois*

Relevant Coursework

- Data Analytics
- Machine Learning
- Data Visualization
- Algorithms
- Predictive Analytics
- Databases
- Stats/Calc
- NLP

Experience

Undergraduate Student AI/NLP Researcher — June 2025 – Present
Northern Illinois University — *DeKalb, IL*

- Designed the qualitative comparison framework with faculty mentors, using 28 real founder personas and transcripts to define evaluation criteria for AI–human interview analysis.
- Built a GPT-based simulation process that generated AI transcripts for all 28 personas using the same interview prompts, enabling structured tone, depth, and accuracy comparisons.
- Developed a Python pipeline and custom GPT prototype to clean, analyze, and score transcripts using thematic and sentiment methods, producing dashboards that highlighted alignment patterns and gaps.

Network Planning Analyst Intern — June 2025 – August 2025
Shipt — *Birmingham, AL*

- Designed and deployed an end-to-end Tableau analytical system analyzing daily order data across Shipt's national delivery network of 30,000+ ZIP codes, improving visibility of delivery KPIs by 30%.
- Automated daily Tableau extracts, cutting manual reporting time by 10+ hours per week and enabling 5+ teams to access live performance data.
- Delivered geospatial Tableau dashboards used by 15+ regional planners/associates, increasing decision speed and network optimization efficiency by 25%

IT Data Analyst Intern — March 2025 – May 2025
Innovation Dupage — *Glen Ellyn, IL*

- Built Tableau dashboards tracking 20+ KPIs across programs, improving reporting efficiency by 40%.
- Applied advanced Excel (PivotTables, VLOOKUP) to analyze program metrics and engagement.
- Supported Salesforce CRM with custom reports and dashboards to streamline project tracking.

Projects

Amazon Employee Review Analysis with NLP | *Python, PyTorch, SQL* — October 2025

- Built a multi-task NLP pipeline to analyze Amazon employee reviews using sentiment analysis (VADER), topic modeling (BERTopic), and semantic similarity (BERT embeddings) to uncover themes in leadership, culture, and attrition.
- Fine-tuned a BERT sentiment classifier using PyTorch to outperform rule-based methods, integrating model predictions into a structured dataset for cross-sectional analysis by department and location.

Full Stack Data Project | *Python, PostgreSQL, dbt, Airflow, Tableau* — September 2025

- Engineered a full-stack analytics solution using Python, PostgreSQL, and Tableau to simulate real-time retail decision-making.
- Designed a relational schema, automated ETL pipelines, and implemented regression models for forecasting.
- Delivered interactive dashboards to visualize sales and performance across regions and SKUs.

Technical Skills

Languages: Python (pandas, numpy, scikit-learn), C++, SQL
Visualization Tools: Tableau, Power BI, Excel, Matplotlib
Technologies/Frameworks: Snowflake, Azure ML, Linux, Tensorflow, Git/Github

Extracurricular

School Extracurriculars & Competitions — 2022–Present
Northern Illinois University

- **Winner – NIU Data Visualization Competition (HAVI)** — Developed a Power BI dashboard analyzing supply chain inefficiencies using Python and Excel-based data.
- **Association for Computing Machinery** — Participated in NIU's Association for Computing Machinery chapter, Promoting and attending tech talks and coding events to explore software, systems, and IT applications.