AYOTUNDE EJIKO

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DATA ANALYST • PYTHON • SQL • DASHBOARDS • DATA STORYTELLING

EDUCATION

Cornell University, Ithaca, NY ***Expected May 2028***

Bachelor of Science, Information Science (Economics Concentration) | GPA: 3.92

Relevant Coursework: Data Science, Machine Learning, Statistical Analysis, Database Systems, Human-Computer Interaction, Software Development

TECHNICAL SKILLS

Programming & Analysis: Python (pandas, numpy, matplotlib, seaborn), SQL, R, statistical modeling, time-series analysis, regression analysis

Data Visualization & BI: Tableau, Excel (advanced formulas, pivot tables, Power Query), Jupyter notebooks, data dashboards, KPI tracking

Data Engineering: Data pipelines, ETL workflows, IoT sensor integration, API data collection, data validation and cleaning

Tools & Platforms: Git/GitHub, Jupyter, VS Code, Figma, Google Analytics, survey platforms (Panorama)

DATA & ANALYTICS EXPERIENCE

Education Data & Innovation Intern ***May 2025 - Aug 2025***

DC Public Schools (DCPS) Central Office - Washington, DC

- Analyzed 10,000+ student survey responses using Python and Excel to identify belonging and engagement trends across demographic subgroups
- Built interactive Tableau dashboards monitoring attendance patterns, climate indicators, and early-warning signals for district leadership
- Conducted statistical analysis to surface subgroup disparities (race, grade level, school) informing $MM+ resource allocation decisions
- Translated complex findings into stakeholder-ready data stories for 5+ district teams, driving program design and strategic priorities

Smart Hive Tech & Data Intern ***Jun 2025 - Aug 2025***

Capitol Bee Care LLC - Washington, DC

- Deployed IoT sensor data pipeline integrating temperature/humidity readings with camera checks and field notes into centralized tracking system
- Reduced troubleshooting time by ~20% through automated data validation, continuity checks, and anomaly detection workflows
- Built repeatable install protocols and monitoring dashboards across 5+ active hive deployments, improving data reliability

Advisory Committee Member (Research & Data Focus) ***Jun 2025 - Present***

DC Education Research Collaborative (Urban Institute) - Washington, DC

- Advise on translating education research findings into actionable, data-driven recommendations for district stakeholders
- Provide student perspective on data interpretation, equity analysis frameworks, and community-facing data communication

Summer Intern (Data & Insights) ***Summer 2023***

Tyler Technologies

- Supported software deprecation analysis for 50+ government clients using data documentation and impact assessment frameworks
- Gained cross-functional exposure to product analytics, engineering workflows, and client data communication strategies

Summer Intern (ML & Data Science Track) ***Summer 2023***

Microsoft BAM Mentorship Program

- Explored ML and data science fundamentals through mentorship-driven coding projects and hackathon-style challenges
- Built rapid prototyping skills and learned to pitch data-driven solutions under time constraints

DATA PROJECTS & CASE STUDIES

Arrest Trends & Policy Analysis (NYC, DC, LA, 2000-2024)

Tools: Python (pandas, matplotlib, seaborn), Jupyter notebooks, time-series analysis, difference-in-differences

- Analyzed 24+ years of arrest data across three cities to quantify reform impacts (marijuana legalization, stop-and-frisk policies)
- Applied regression modeling and statistical tests to isolate policy effects from seasonal patterns and demographic trends
- Created compelling data visualizations showing monthly arrest trends, reform inflection points, and persistent racial disparities

Student Belonging & Engagement Analysis (DCPS)

Tools: Python, Excel, Tableau, Panorama survey platform, statistical comparison methods

- Cleaned and validated 10,000+ survey responses; conducted subgroup analysis by race, grade level, school, and program participation
- Built Tableau dashboards with drill-down capabilities for district teams to explore trends and identify intervention opportunities
- Synthesized insights into executive summaries and data stories that informed strategic planning and professional learning priorities

Smart Hive IoT Monitoring System

Tools: Python, IoT sensors (temperature/humidity), data pipelines, field data collection protocols

- Designed data pipeline integrating sensor readings, camera observations, and field notes into unified monitoring dashboard
- Implemented data validation checks, anomaly detection, and threshold alerting to identify hive issues early
- Standardized data logging (timestamps, units, hive IDs) and created repeatable analysis workflows for field decision-making

ADDITIONAL SKILLS & INTERESTS

Data Storytelling: Translating complex analysis into clear narratives for non-technical stakeholders; executive presentation skills

Research Methods: Survey design and analysis, A/B testing principles, experimental design, qualitative coding

Domain Knowledge: Education systems, public policy evaluation, equity frameworks, behavioral analytics, product metrics

AWARDS & RECOGNITION

Capital One Case Competition Winner (BILBCon 2024) | National Merit Scholarship Semifinalist (2023) | AFCEA DC STEM Scholar | Boeing STEM Signing Day Honoree (2024) | Cornell Division I Student-Athlete