

# ANDREW JOHNSON

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## EDUCATION

B.S. in Information Technology – Software Engineering

Middle Georgia State University, Macon, GA

**Relevant Courses:** System Analysis, & Design, Software Engineering, Operating Systems, Database Principles

## SKILLS

- **Programming Languages:** Python, R, Django, SQL, Java (Spring Boot), JavaScript, TypeScript
- **Python Libraries:** NumPy, Pandas, Matplotlib, openpyxl, psycopg2, scikit-learn
- **Database Systems:** PostgreSQL, MongoDB
- **Data Visualization:** Tableau, Power BI
- **Data Analysis Tools:** Advanced Excel
- **Version Control:** Git
- **Cloud & DevOps:** Docker, AWS (S3, Amplify, EC2, Elastic Beanstalk)
- **Other:** API & Webhook Development, Automation, Infrastructure Architecture, SaaS Platforms, Agile (Scrum, Sprint Planning, Code Reviews), Security Best Practices

## EXPERIENCE

### Full Stack Developer & Software Tester Internship

Next Play Nation | Apr 2025 – Jun 2025 | [Web & Mobile Internship App](#) | [Internship recommendation letter](#)

- Developed and maintained React micro-frontends integrated with Node.js and Spring Boot APIs in a microservice-style architecture.
- Implemented RESTful and GraphQL APIs supporting data integrations and internal tooling.
- Applied Test Driven Development (TDD) with Jest, React Testing Library, and Supertest to validate features.
- Optimized system performance and resolved technical issues, applying debugging and system architecture troubleshooting skills.
- Participated in code reviews and Agile ceremonies, contributing to a collaborative engineering culture.

## PROJECTS

### Data Warehouse Analytics: Sales Data Warehouse & Dashboards

- Built a mini data warehouse in PostgreSQL with a star schema, including fact and dimension tables, to organize sales data.
- Developed an ETL pipeline in Python to clean, transform, and load sales data into the warehouse.

- Created interactive dashboards in Tableau and Power BI highlighting sales trends, top products, and customer insights.
- Performed feature engineering and a baseline machine learning model using Python and R.
- Utilized libraries and tools: pandas, psycopg2, scikit-learn, R, Tableau, Power BI, PostgreSQL, pgAdmin.

## SQL & Python Data Analyst visualize sales data (2025)

- **Python & Pandas** - Cleaned raw sales data (handled missing values, duplicates) , Recalculated revenue metrics using Python scripts, Exported clean, analytics-ready CSV files
- **SQL**- Designed a database structure (CREATE TABLE), Inserted sample sales data, Built core queries: - Total revenue, Sales by product, Customer order counts , Full data exploration
- **Tableau Public** - Built dashboards containing: KPI cards (Total Revenue, Total Orders, Top Product) , Sales trends over time , Customer segmentation , Product performance visuals , Interactive filters
- **Real Analytics Workflow** - Data ingestion → cleaning → modeling → SQL queries → visual insights, replicates real business reporting/analysis tasks, showcases ability to work across the full analytics pipeline

## Healthcare Data Analytics: Billing, Visits & Outcomes

- **Cleaned and processed 10,000+ rows of healthcare visit data using Python (Pandas, NumPy, openpyxl)** to remove missing values, standardize fields, and prepare the dataset for analysis.
- **Performed exploratory data analysis (EDA)** in Jupyter Notebook to calculate billing statistics, department visit breakdowns, and patient outcome patterns.
- **Designed a relational SQL table and imported the dataset into PostgreSQL (pgAdmin)** using CREATE TABLE and COPY to run data validation and analytical queries.
- **Developed three interactive Tableau Public visualizations** (billing trends, department visit distribution, and patient outcomes) and published them in a combined dashboard.
- **Version-controlled the entire project with Git/GitHub**, including Python scripts, SQL files, notebooks, and a public Tableau dashboard link.