

ANDREW JOHNSON

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SUMMARY

Data Analyst with certifications in **Data Analytics (Simplilearn)** and **Google Analytics 4 (Google)**, experienced in Python, SQL, R, and data visualization. Specializes in end-to-end analytics for finance, fintech, and government projects, including data modeling, ETL pipelines, anomaly detection, and KPI-driven dashboards using Tableau, Power BI, and Excel. Proven ability to generate, clean, validate, and analyze large datasets to deliver actionable, executive-ready insights supporting fraud detection, risk assessment, audit compliance, and operational decision-making.

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

CERTIFICATIONS

Google Analytics Certification – **Google Analytics 4** - Google | 2025

Skills covered: GA4 property setup for website/app, data collection, reporting and analysis, measurement of online marketing effectiveness, generating actionable insights for business decisions

Data Analytics Certification – Introduction to Data Analytics, Simplilearn (2025): Data Analysis, SQL, Python, Data Visualization, Business Analytics Fundamentals

SKILLS

1. **Programming Languages:** Python, R, SQL, Java (Spring Boot), JavaScript, TypeScript, Django
2. **Python Libraries:** Pandas, NumPy, Matplotlib, openpyxl, psycopg2, scikit-learn
3. **Database Systems & Warehousing:** PostgreSQL, MongoDB, **Snowflake (data warehousing concepts & analytics workloads)**
4. **Data Modeling & ETL:** Star schema design, fact & dimension tables, ETL pipelines, data transformation, data validation
5. **Data Visualization & BI:** Tableau, Power BI
6. **Data Analysis Tools:** Advanced Excel (Power Query, Pivot Tables)
7. **Version Control:** Git
8. **Cloud & DevOps:** AWS (S3, EC2, Amplify, Elastic Beanstalk), Docker
9. **Other:** API & Webhook Development, Automation, SaaS Platforms, Agile (Scrum, Sprint Planning, Jira, Slack, Code Reviews), Security & Data Privacy Best Practices
10. **AI & Machine Learning:** Applied machine learning concepts, anomaly detection, feature engineering, predictive modeling, model evaluation, and data-driven decision support
11. **AI Tools & Automation:** AI-assisted analytics, intelligent reporting workflows, and automated data insights

EXPERIENCE

Full Stack Developer & Software Tester Internship

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1. Developed and maintained React micro-frontends integrated with Node.js and Spring Boot APIs in a microservice-style architecture.
2. Implemented RESTful and GraphQL APIs supporting data integrations and internal tooling.
3. Applied Test Driven Development (TDD) with Jest, React Testing Library, and Supertest to validate features.

6. Optimized system performance and resolved technical issues, applying debugging and system
7. architecture troubleshooting skills.
8. Participated in code reviews and Agile ceremonies, contributing to a collaborative engineering culture.

PROJECTS

Finance & Fintech Data Analytics Project

1. Designed and managed a PostgreSQL relational database modeling customers, accounts, loans, and transactions using normalized schemas and structured SQL queries.
2. Built complex JOIN operations and aggregation queries to create a combined financial analytics table for fraud detection, credit segmentation, and risk analysis.
3. Developed automated data generation and transformation workflows using Python (Pandas, NumPy) and R (tidyverse) to simulate real-world financial operations.
4. Structured BI-ready datasets for Tableau, and Excel reporting, enabling KPI tracking across fraud rates, loan exposure, and customer financial tiers.

Large-Scale Government Audit & Anomaly Detection System

1. Engineered an end-to-end analytics pipeline processing **500,000+ simulated government financial transactions** (procurement, payroll, benefits, inspections) using **Python, SQL, and R**.
2. Designed structured **data validation and cleansing workflows** (duplicate detection, missing value imputation, error flagging, schema controls) to ensure audit-grade data integrity.
3. Implemented **machine learning–based anomaly detection (Isolation Forest)** to identify 4,976 high-risk transactions, representing **\$1.03B+ in potential financial exposure**.
4. Developed **budget vs. actual variance analysis framework**, flagging material deviations (>20%) to detect potential mismanagement or misuse of public funds.
5. Integrated anomaly results, KPI metrics, and fiscal-year filtering (2021–2025) into a unified **Tableau-ready reporting dataset (CSV & Excel)** for executive dashboards.
6. Built reproducible project architecture using virtual environments (venv), modular Python scripts, and structured directory design for scalable audit analytics.
7. Produced executive-ready dashboards and financial impact summaries translating technical findings into actionable risk insights for non-technical stakeholders.

Data Warehouse Analytics: Global Sales Data Warehouse & Dashboards

1. Designed and implemented an end-to-end **data warehouse analytics pipeline** using Python and PostgreSQL, modeling global sales data with a **star schema** (fact and dimension tables) to support scalable analytical queries.
2. Built a Python-based **ETL pipeline** to simulate, clean, transform, and enrich multi-year (2021–2025) sales data, calculating total price, profit, and sales metrics, and exporting analytics-ready datasets in **CSV and Excel formats**.
3. Performed **feature engineering** to derive time-based attributes (year, month abbreviations), regional segmentation, and KPI-ready fields optimized for Tableau and BI dashboards.
4. Loaded transformed data into PostgreSQL using psycopg2, populating **customer, product, date dimensions, and sales fact tables**, and ensuring relational integrity for warehouse analytics.
5. Wrote analytical SQL queries to calculate **revenue by product, country, and month**, total profit, and business KPIs using joins and aggregations across fact and dimension tables.
6. Developed interactive **Tableau dashboards** showcasing global sales performance, monthly trends, product revenue, and customer distribution with shared filters and KPI views.
7. Implemented a **baseline linear regression model** in Python to predict sales revenue based on quantity and unit price, demonstrating applied analytics beyond reporting.
8. Conducted supplementary exploratory analysis and visualization in **R**, validating sales distributions and price–quantity relationships.
9. Version-controlled the entire project using **Git/GitHub**, including ETL scripts, warehouse schemas, SQL queries, and BI-ready datasets.

Healthcare Data Analytics: Billing, Visits & Outcomes

1. Built an end-to-end healthcare analytics pipeline modeling 10,000+ visit and billing records using Python and PostgreSQL, transforming raw data into analytics-ready datasets.

2. Designed relational tables and combined normalized healthcare datasets using SQL joins, CTEs, aggregations, and window functions (RANK, ROW_NUMBER, SUM OVER, PERCENT_RANK) to analyze provider performance and billing trends.
3. Engineered KPI-driven metrics including running totals, departmental revenue, outcome segmentation, and percent-of-total billing contributions.
4. Developed Tableau-ready data structures and interactive dashboards visualizing billing trends, provider rankings, and departmental performance.
5. Version-controlled the full analytics workflow using Git/GitHub, managing SQL models, Python transformations, and dashboard-ready outputs.