Kenneth Sherrod

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Education

Master of Science, Data Science and Analytics   January 2025 - December 2026
Old Dominion University

Bachelor of Science, Computer Science   January 2022 - December 2024
Old Dominion University
- Association of Computing Machinery, Tau Sigma Honor Society, Dean's List Recipient (Spring 2022, 2024)

Certifications
- Google Data Analytics Certification

Experience

City of Virginia Beach Department of Information Technology   May 2025 - August 2025
Data Science Intern   Virginia Beach, Va
- Built a real-time air quality analytics pipeline using Python, Breeze Technology API, and multi-sensor IoT streams to collect and process over 1.2 million multivariate time-series records across Virginia Beach sensor sites.
- Prepared 10+ weekly reports and presentations summarizing analytical findings.
- Monitored and analyzed water level data to support early flood detection and emergency preparedness.
- GitHub: https://github.com/Ken2745/Real-Time-Air-Quality-Hotspot-Detection-and-Multi-Sensor-Analytics

Mag Aerospace   June 2023 - August 2023
Software Engineering Intern   Fort Belvoir, Va
- Supported defense imaging operations by capturing high-fidelity infrared and multi-camera imagery of military vehicles in controlled environments.
- Performed image collection, data handling, and workflow support across multi-system imaging stations using PyCharm and Python-based tooling to support the development of 3D virtual reality combat training.

Projects

Strava Performance Analytics and Retention Modeling
- Augmented an end-to-end analytics pipeline using Python and SQL to ingest athlete activity data from the Strava REST API, storing JSON responses in a normalized PostgreSQL relational database.
- Created interactive Power BI dashboards and reports summarizing key insights and business recommendations.
- GitHub: https://github.com/Ken2745/Strava-Performance-Analytics

Diabetes Risk Classification Tool
- Developed a supervised machine learning risk classifier to predict diabetes likelihood using CDC BRFSS survey data (400K+ records), reaching an AUC score of 96%.
- Performed large-scale data cleaning, exploratory data analysis, and feature engineering using Python (Pandas, NumPy, scikit-learn).
- GitHub: https://github.com/Ken2745/Diabetes-Detection

The Coupon App (Safety & Emergency Response Mobile Application)
- Built a discreet Android safety application in Java that provides emergency support while masquerading as a standard coupon app.
- Built AI-driven audio classification using TensorFlow lite to detect distress-related sounds, and integrated Porcupine for hands-free activation via wake words and spoken keywords.
- Developed a Django backend with SQLite for lightweight, reliable data persistence and API communication.
- GitHub: https://github.com/Ken2745/the-coupon-app

Skills

Programming & Web: Java, JavaScript, C++, Python, SQL, HTML, CSS
Frameworks & Libraries: Django, Node.js, React.js
Databases & Data Tools: MySQL, PostgreSQL, MongoDB, Databricks, Jupyter, Excel, Tableau, Power BI
DevOps & Methodologies: Git, GitHub, Linux, Agile, Scrum, Jira