Dane Ramirez

Aspiring Data Engineer

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daneramirez.github.io/DanePortfolio/

EDUCATION AND CERTIFICATIONS

Nova Scotia Community College   Halifax, NS, Canada
IT Database Administration Diploma, HONORS   *Sep 2023 – May 2025*
- Cisco NetAcad: CCNA 1 and CCNA 2 Networking and Routing
- AWSAcademy: AWS Cloud Foundations Badge

Coursera Courses   Guided Online
Full Certificate Courses
- IBM Data Engineering   (Dec 2023 - May 2025)
- Amazon Junior Developer   (Feb 2025 - Dec 2025)

PROJECT EXPERIENCE

IMDb Data Engineering Pipeline + Data Analysis   Feb 2025 – March 2025
Independent Project
- Developed an end-to-end ETL pipeline to process 50M+ rows of IMDb data using Python and PostgreSQL
- Designed a normalized database schema with foreign key constraints and optimized indexing for efficient querying.
- Automated data updates using Docker and Apache Airflow, reducing manual intervention by 90%.
- Visualized trends in movie ratings, genres, and actor-director collaborations using Tableau.

Student Connector and Book Marketplace Website Project   Jan 2025 – Mar 2025
Team Project - Role: DB and DevOPS Engineer   *NSCC / University Project*
- Co–led database design and deployment using PostgreSQL, Azure, and Docker, ensuring high availability and scalability.
- Redesigned the database schema multiple times to optimize performance and remove redundancy by eliminating unnecessary tables.
- Assisted with deployment, code review, and overall system optimization, enhancing website performance even without direct frontend coding.

Real-Time Halifax Bus Tracker   February 2025
Independent Project
- Developed live bus tracking web app processing 100+ GTFS real-time data points/minute via protobuf
- Engineered Python/Flask backend with 15-second refresh intervals, visualizing data on Leaflet.js maps
- Implemented route filtering and vehicle detail popups (speed, coordinates) using GeoJSON feature layers

Student Data Centre Management Project   Sep 2024 – Dec 2024
NSCC Semester Project   *NS, Canada*
- Co-directed the setup and integration of a Hadoop cluster on bare–metal servers to enhance data processing capabilities.
- Coordinated dataset selection and deployment with peers, resulting in improved processing speed and system stability.

TECHNICAL SKILLS

Programming: Python, Java, SQL, HTML, CSS, Javascript
Data Technologies: Oracle DB, PostgreSQL, MariaDB/MySQL, Apache Hadoop, Apache Spark, Kafka, Apache Airflow, Power BI, Excel, Numpy, Pandas, Azure DB Postgres, AWS Aurora and RDS
DevOps & Cloud: Docker, Kubernetes, AWS, Azure, Virtualization, Containerization, GIT, Bash Scripting
Additional: Data Modelling, Networking, Windows Administration, DB Administration, ETL/ELT, Data Warehousing, Business Analysis, Disaster Recovery & Information/Data Governance, Data Analysis, Auditing, Regulatory Compliance

WORK EXPERIENCE

Team Member   May 2022 – Sep 2023
Dairy Queen   *Dartmouth, NS*
Sales Associate   Nov 2023 – Present
Bluenotes   *Micmac Mall, Dartmouth, NS*