Dane Ramirez

Aspiring Data Engineer

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daneramirez.github.io/DanePortfolio/

EDUCATION AND CERTIFICATIONS

Nova Scotia Community College	Dartmouth, NS
IT Database Administration Diploma. Grade:90	*Sep 2023 – May 2025*
Coursera IBM Data Engineering	Online
Full Certificate Course	*Dec 2023 – May 2025*
AWS Cloud Practitioner Certification	Expected: Mar 2025

PROJECT EXPERIENCE

IMDb Data Engineering Pipeline + Data Analysis — Feb 2025 – Present

Independent Project

- Developed an end-to-end ETL pipeline to process 50M+ rows of IMDb data using Python, PostgreSQL, and Pandas.
- 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.
- Established continuous integration pipelines to support agile development practices.

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*

- 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
Data Technologies: Oracle DB, PostgreSQL, MariaDB/MySQL, Apache Hadoop, Apache Spark, Kafka, Apache Airflow
DevOps & Cloud: Docker, Kubernetes, AWS, Azure, Virtualization, Containerization, GIT, Bash Scripting
Additional: Data Modelling, Networking, Windows Administration, Database Administration, ETL/ELT, Data Warehousing, Business Analysis, Disaster Recovery & Information Governance, Excel, CCNA Networking

WORK EXPERIENCE

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