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

Hair Salon Full–Stack Website Commission — Feb 2025 – Apr 2025
Freelance Team Project — *Local Business, NS*

- Led a cross–functional team to design and deploy a full–stack website with a robust database architecture and cloud–based server deployment.
- Developed a scalable backend service integrating secure payment and appointment scheduling APIs.
- Coordinated directly with the client to align technical solutions with budgetary constraints and aggressive delivery deadlines.

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*