Eric Lee

+1 403-547-0033   elee01919@gmail.com   linkedin.com/in/eric-lee-el9   ericportfolio.app

Experience

Data Scientist   April 2024 – Oct 2025
Dell Technologies   *Toronto, Ontario*
- Designed and implemented 15+ production ETL pipelines and backend services using Python, FastAPI, SQL to automate ingestion and processing of NBA data, improving feature quality and reliability
- Rebuilt legacy analytics notebooks into modular Python packages and APIs improving run-time efficiency by 40%
- Optimized API endpoints with async/await, reducing API latency by 30% under peak NBA-data loads

Programmer Analyst Student   May 2025 – August 2025
City of Calgary   *Calgary, Alberta*
- Automated SQL workflows for the Water Services team with 100% test coverage and zero QA failures, modernizing manual labour tasks
- Resolved 100+ engineering tickets involving SQL, API failures, and backend data issues, improving system stability and contributing to faster incident turnaround times
- Refactored legacy VBScript automation into a .NET application, improving performance and maintainability for internal automation tasks

Data Scientist Intern   May 2023 – April 2024
Cybera   *Calgary, Alberta*
- Implemented NLP data pipelines in Python using BeautifulSoup and 10+ external APIs to power a government voting analytics Jupyter notebook
- Developed and deployed ML models (KNN and linear regression) to predict Alberta water levels with 93% accuracy, wrapping model logic in reusable Python modules
- Optimized tax calculation workflows by refactoring Python data processing code and implementing vectorized operations with NumPy, reducing pipeline latency by 50%

Projects

"Facebook" Clone Web App | *Django, Heroku, Python, JavaScript, CSS, HTML, Swagger*
- Implemented RESTful APIs enabling interaction between nodes on separate Heroku instances, supporting dynamic distribution of content across a federated network
- Achieved 100% unit and integration test coverage for API endpoints using Swagger/OpenAPI-driven tests, improving reliability and regression safety
- Built front-end interfaces for profile, stream, and post views using JavaScript, HTML/CSS, and AJAX for dynamic content updates

QR Code Hunter App | *Java, Firebase, JUnit, Guava, RXBinding, Google Maps*
- Developed core Android application features including QR scanning, Google Maps-based location tagging, and real-time sync with Firebase
- Wrote JUnit-based instrumentation and intent tests to validate QR scanning, login flows, and key app components, improving reliability before releases

AI Gym Exercise App | *Python, Streamlit, Mediapipe, OpenCV, Numpy*
- Built a full-stack AI gym assistant web app using Python and Streamlit, providing real-time user interaction and feedback on exercise form
- Integrated Mediapipe's holistic body model and OpenCV to implement pose estimation pipelines that detect joint angles
- Structured the application into reusable modules for UI improving maintainability and iteration speed

Technical Skills

Languages/Frameworks: Python, JavaScript, TypeScript, Java, C++, C#, SQL, HTML/CSS, React, Node.js, Next.js, Angular, Vue.js, Express, .NET, FastAPI, Django, Flask, Spring Boot
Libraries/Technologies: Docker, AWS, Git/GitHub, CI/CD, Nginx, Tailwind, Firebase, MongoDB, PostgreSQL, MySQL

Education

University of Alberta   Expected 2026
Bachelor of Science in Computer Science   *Edmonton, Alberta*