

Eric Lee

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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
- Used Python, Plotly, and pandas to explore production request and job logs to fix and identify data quality issues
- 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 queries, REST API failures, and backend data issues by analyzing logs and request traces, 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, SQL, JavaScript, TypeScript, Java, C++, C#, FastAPI, Flask, Django, React, Node.js

Libraries/Technologies: pandas, NumPy, Jupyter, Plotly, Matplotlib, Seaborn, scikit-learn, PostgreSQL, MySQL, Docker, AWS, Git/GitHub, Linux, HTTP/REST

Education

University of Alberta

Bachelor of Science in Computer Science

2025

Edmonton, Alberta