

Eric Lee

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Experience

Data Scientist	April 2024 – Oct 2025
Dell Technologies	Toronto, Ontario
<ul style="list-style-type: none">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 reliabilityUsed Python, Plotly, and pandas to explore production request and job logs to fix and identify data quality issuesOptimized 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
<ul style="list-style-type: none">Automated SQL workflows for the Water Services team with 100% test coverage and zero QA failures, modernizing manual labour tasksResolved 100+ engineering tickets involving SQL queries, REST API failures, and backend data issues by analyzing logs and request traces, contributing to faster incident turnaround timesRefactored 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
<ul style="list-style-type: none">Implemented NLP data pipelines in Python using BeautifulSoup and 10+ external APIs to power a government voting analytics Jupyter notebookDeveloped and deployed ML models (KNN and linear regression) to predict Alberta water levels with 93% accuracy, wrapping model logic in reusable Python modulesOptimized 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	
<ul style="list-style-type: none">Implemented RESTful APIs enabling interaction between nodes on separate Heroku instances, supporting dynamic distribution of content across a federated networkAchieved 100% unit and integration test coverage for API endpoints using Swagger/OpenAPI-driven tests, improving reliability and regression safetyBuilt 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	
<ul style="list-style-type: none">Developed core Android application features including QR scanning, Google Maps-based location tagging, and real-time sync with FirebaseWrote 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	
<ul style="list-style-type: none">Built a full-stack AI gym assistant web app using Python and Streamlit, providing real-time user interaction and feedback on exercise formIntegrated Mediapipe's holistic body model and OpenCV to implement pose estimation pipelines that detect joint anglesStructured 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
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