

Eric Lee

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Experience

Data Scientist <i>Dell Technologies</i>	April 2024 – Oct 2025 Toronto, Ontario
<ul style="list-style-type: none">Created 15+ data pipelines using Python, SQL, FastAPI, and Spark, enabling automated ingestion and processing of NBA data with improved feature qualityUpgraded legacy analytics notebooks by rebuilding data pipelines with the NBA API and Python, reducing code complexity and improving run-time efficiency by 40%Redesigned Python API layers leveraging FastAPI and asynchronous I/O, reducing request overhead by 30%	
Programmer Analyst Student <i>City of Calgary</i>	May 2025 – August 2025 Calgary, Alberta
<ul style="list-style-type: none">Supported the development of an internal Azure-based chat-bot used to improve staff efficiency by streamlining access to organizational resourcesContributed across 100+ tickets with a focus on SQL and data-related tasks, consistently meeting ticket deadlinesTransformed legacy VBScript into .NET application, improving performance and maintainability for internal automation tasks	
Data Scientist Intern <i>Cybera</i>	May 2023 – April 2024 Calgary, Alberta
<ul style="list-style-type: none">Implemented NLP pipelines using Python, BeautifulSoup, and 10+ API endpoints for government voting Jupyter notebookDeveloped KNN model and linear regression model to predict water-levels in Alberta, achieving a 93% accuracyOptimized tax calculation pipelines by refactoring workflows in Python, implementing vectorized computations with NumPy, resulting in a 50% reduction in latency	

Projects

"Facebook" Clone Web App <i>Django, Heroku, Python, JavaScript, CSS, HTML, Swagger</i>	<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 networkDeveloped unit and integration tests for all API endpoints using Swagger, achieving 100% test coverageImplemented front-end interfaces for profile, stream, and post views using JavaScript, CSS, and HTML, incorporating AJAX for dynamic content updates
QR Code Hunter App <i>Java, Firebase, JUnit, Guava, RXBinding, Google Maps</i>	<ul style="list-style-type: none">Implemented core app features including QR code scanning, location tagging with Google Maps API, and real-time data sync using FirebaseHelped design and execute intent testing using JUnit, ensuring the reliability of QR code scanning, login processes, and various classesAttended 100% of Agile meetings, ensuring tasks were completed on schedule, actively contributed to sprint planning and retrospectives, and facilitated effective communication among team members
AI Gym Exercise App <i>Python, Streamlit, Mediapipe, OpenCV, Numpy</i>	<ul style="list-style-type: none">Developed intuitive front-end UI with dynamic input capabilities using Streamlit, enabling real-time user interactionImplemented Mediapipe's holistic body model, using human pose prediction and face landmarks pipelinesUtilized AI pose estimation techniques using OpenCV and MediaPipe, with an 87% margin of error in identifying exercise angles

Technical Skills

Languages/Frameworks: Python, C++, C#, JavaScript, TypeScript, Java, SQL, HTML/CSS, React, Node.js, .NET
Libraries/Technologies: AWS, Docker, FastAPI, Spark, Spring Boot, Tailwind CSS, NumPy, pandas, Plotly, Matplotlib, scikit-learn, PyTorch, TensorFlow, Firebase, MongoDB, Django, Flask, Android SDK

Education

University of Alberta <i>Bachelor of Science in Computer Science</i>	Expected 2026 Edmonton, Alberta
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