Eric Lee

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Experience

Data Scientist   April 2024 – Oct 2025
Dell Technologies   *Toronto, Ontario*

- Created 15+ data pipelines using Python, SQL, FastAPI, and Spark, enabling automated ingestion and processing of NBA data with improved feature quality
- Upgraded 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   May 2025 – August 2025
City of Calgary   *Calgary, Alberta*

- Supported the development of an internal Azure-based chat-bot used to improve staff efficiency by streamlining access to organizational resources
- Contributed across 100+ tickets with a focus on SQL and data-related tasks, consistently meeting ticket deadlines
- Transformed legacy VBScript into .NET application, improving performance and maintainability for internal automation tasks

Data Scientist Intern   May 2023 – April 2024
Cybera   *Calgary, Alberta*

- Implemented NLP pipelines using Python, BeautifulSoup, and 10+ API endpoints for government voting Jupyter notebook
- Developed KNN model and linear regression model to predict water-levels in Alberta, achieving a 93% accuracy
- Optimized 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 | *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
- Developed unit and integration tests for all API endpoints using Swagger, achieving 100% test coverage
- Implemented front-end interfaces for profile, stream, and post views using JavaScript, CSS, and HTML, incorporating AJAX for dynamic content updates

QR Code Hunter App | *Java, Firebase, JUnit, Guava, RXBinding, Google Maps*

- Implemented core app features including QR code scanning, location tagging with Google Maps API, and real-time data sync using Firebase
- Helped design and execute intent testing using JUnit, ensuring the reliability of QR code scanning, login processes, and various classes
- Attended 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 | *Python, Streamlit, Mediapipe, OpenCV, Numpy*

- Developed intuitive front-end UI with dynamic input capabilities using Streamlit, enabling real-time user interaction
- Implemented Mediapipe's holistic body model, using human pose prediction and face landmarks pipelines
- Utilized 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   2025
Bachelor of Science in Computer Science   *Edmonton, Alberta*