Eric Lee

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Technical Skills

Languages/Tools: Python, C, C# JavaScript, React, NodeJS, TypeScript, .NET, Java, SQL, MongoDB, Firebase
Libraries/Technologies: AWS, SpringBoot, FastAPI, Docker, NumPy, pandas, Plotly, Matplotlib, scikit-learn, PyTorch, Tensorflow, MediaPipe, Django, Flask, Android SDK

Experience

Data Scientist   April 2024 – Present
Dell Technologies   *Toronto, Ontario (Remote)*
- Redesigned internal Python API layers leveraging FastAPI and asynchronous I/O, boosting system performance and reducing request overhead by 30%
- Trained and optimized ML model (Random Forest, XGBoost) for NBA player position prediction, reaching 81% accuracy
- Designed and implemented an open-source Jupyter notebook integrating NBA API data pipelines and visualization frameworks, increasing concurrent users by more than 50%

Software Programmer Student   May 2025 – August 2025
City of Calgary   *Calgary, Alberta*
- Supported the development of an internal Azure-based chatbot 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, 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

Education

University of Alberta   2025
Bachelor of Science in Computer Science   *Edmonton, Alberta*