

# Eric Lee

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## Technical Skills

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**Languages/Tools:** Python, C, C# JavaScript, React, NodeJS, TypeScript, .NET, Java, SQL, MongoDB, Firebase

**Libraries/Technologies:** AWS, SpringBoot, Docker, NumPy, pandas, Plotly, Matplotlib, scikit-learn, PyTorch, Tensorflow, MediaPipe, Django, Flask, Android SDK

## Experience

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### Programmer Analyst 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

April 2024 – Present

*Dell Technologies*

*Toronto, Ontario (Remote)*

- Refactored API integration in back-end services, resulting in a 30% improvement in overall system efficiency
- Developed classification model predicting NBA player's positions, achieving an 81% test accuracy score
- Partnered with non-profit organization PS43 to develop a student resource that teaches students data-science fundamentals using open-source NBA API data, increasing number of users by more than 50%

### Data Scientist Intern

May 2023 – April 2024

*Cybera*

*Calgary, Alberta*

- Implemented NLP pipelines using Python, BeautifulSoup, and 10+ API endpoints for government voting data
- Developed KNN model and linear regression model to predict water-levels in Alberta, achieving a 93% accuracy
- Optimized back-end functions for provincial and federal tax calculation through widgets, reducing calculation time by approximately 50%

## Projects

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### "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
- Employed error-handling strategies to ensure data extraction even in the presence of missing or irregularly formatted information
- Implemented front-end interfaces for profile, stream, and post views using JavaScript, CSS, and HTML, incorporating AJAX for dynamic content updates

### Pokémon GO 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

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### University of Alberta

*Bachelor of Science in Computer Science*

Expected Dec 2025

*Edmonton, Alberta*