

## Professional Summary

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Ambitious computer engineering student with strong foundation in **software engineering**, **machine learning**, **data engineering**, and **data science**. Passionate about leveraging cutting-edge technologies to solve complex problems at scale. Worked at and made significant impacts at global giants like **Emirates Airlines**, **Estarta**, and **Ecobee**, as well as joining the AI startup world as a **founding engineer** for **Skmai** in Toronto, building impactful products serving thousands of users daily.

## Education

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### University of Toronto

Bachelor of Applied Science and Engineering – **Computer Engineering (with PEY Co-op)**

Sep. 2022 – May 2026

Toronto, Canada

## Experience

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### Ecobee

Product Manager Intern

May 2025 – Aug 2025

Toronto, Canada

- Led a project with the Data Science team to refine on-device smoke and CO alarm detection models, achieving an **F1 score of 93.27%**, **Precision of 96.17%**, and **Recall of 90.54%** on evaluation data.
- Evaluated and tested 3rd-party audio detection models (e.g., **glass break**) and contributed to model selection through precision-recall benchmarking.
- Annotated over **500+** video samples to validate **computer vision models** for **person**, **package**, and **vehicle** detection in Ecobee's upcoming outdoor camera.
- Constantly delivered data analysis reports and conducted competitive research on smart security features, directly influencing product and subscription strategy.

### Estarta

Data Science Intern

May 2024 – July 2024

Amman, Jordan

- Engineered scalable **REST APIs** using **Flask** and **AWS**, reducing API response time by **25%** and significantly enhancing data accessibility across platforms.
- Optimized **SQL queries**, resulting in a **15%** reduction in query execution time and improved overall database performance.
- Developed a **machine learning model** using **PyTorch**, **NumPy**, and **scikit-learn** for contract generation and salary prediction, achieving **92%** accuracy and driving internal adoption at Estarta.
- Designed and implemented a **ReactJS** interface for the ML model, enabling the processing of **100+** contracts and salary predictions for **200+** candidates.
- Containerized applications with **Docker**, enhancing scalability and reducing deployment time.

### The Emirates Group (Emirates Airline)

Data Science and Data Engineer Intern

May 2023 – July 2023

Dubai, UAE

- Architected and implemented data pipelines using **Azure Data Factory** and **Azure Databricks**, processing over **1TB** of daily flight and customer data.
- Assisted in the development and design of **PowerBI** dashboards for effective data visualization and business intelligence reporting.
- Implemented **machine learning models** using **scikit-learn** to predict flight delays, achieving **85%** accuracy.

## Projects

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### GIS Mapper | C++, GladeUI

April 2024

- \* Collaborated in a team of 3 to create a mapping application with an interactive UI comparable to Google Maps.
- \* Used **C++** to implement **Dijkstra's** and **Greedy Heuristics** with **Glade UI**.

### Diabetic Retinopathy Detection | Python, PyTorch, ResNet-152, Google Colab

Sept 2024

- \* Developed a **deep learning model** using **ResNet-152** to classify 5 stages of diabetic retinopathy from retinal images.
- \* Achieved **82.3% F1 score** with **98% accuracy** in detecting severe cases.
- \* Applied **data augmentation** to balance class distribution, improving model generalization.

## Technical Skills

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**Tools & Languages:** Python, C++, C, JavaScript, SQL, ReactJS, Flask, Django, Git, Docker, PyTorch, Numpy, Pandas, GPT, TensorFlow, scikit-learn, Matplotlib, PowerBI, Tableau, Node.js, FPGA, Verilog

**Platforms:** AWS, Azure, Dataiku, OpenAI, Cohere

**Certifications:** Microsoft Azure Fundamentals, Dataiku Core Designer, AI for Everyone (Coursera)