

# Ismail Ahmed

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## EDUCATION

### University of Toronto

Sep. 2020 – Aug. 2025

Honours Bachelor of Science in **Computer Science**

- with additional specialization in **Software Engineering** and **Technical Director** of the UofT Crypto Club

### Relevant Coursework:

Database Systems, Operating Systems, Software Engineering, Web Systems & Security, Machine Learning, Deep Learning

## EXPERIENCE

### Software Developer, Cofounder

Jan. 2024 – Dec. 2024

Lifomation

- Developed an **advanced AI-powered document management web application** using **RAG** with **FAISS** and **OpenAI Embeddings**, enabling **semantic search**, **deadline-based retrieval**, and **contextual recommendations**.
- Designed and deployed **data governance** including **RBAC**, NLP-based **sensitivity classification**, and **Dynatrace-integrated audit logging** for real-time monitoring and secure handling of **sensitive documents**.
- Integrated **Azure OpenAI Enterprise APIs** with privacy-first workflows by disabling data logging, masking PII, and building a lightweight **Jenkins CI/CD pipeline** for scalable, production-ready AI inference.
- Translated feedback from over **1,000 beta users** into robust security features, aligning **technical design** with **business needs** and positioning Lifomation as a **privacy-first AI solution**, leading to an interview with **Sequoia Capital**.

### Software Developer, Open Source

Sep. 2024 – Dec. 2024

LangChain-AI (via University of Toronto)

- Developed an optimized **Dropbox Document Loader** using **TypeScript** and **Node.js**, integrating into **LangChain's AI-driven document pipeline** to streamline document retrieval and processing, handling **10,000+ files** efficiently.

### Machine Learning Developer Intern

Jan. 2023 – Aug. 2023

Casaya

- Led design and development of a full-stack **AI-powered rental platform**, covering listing management, tenant screening, lease generation, and rent collection workflows.
- Built an **AI lease engine** to generate **Ontario-compliant lease agreements** using dynamic templates and rules-based logic, ensuring legal accuracy and scalability.
- Integrated third-party APIs for **identity, income, and background verification**, automating tenant screening and reducing manual review time by **70%**.

### Special programs:Lead

Jan. 2023 – Aug. 2023

University of Toronto

- Developed a web application for the **WUSC Student Refugee Program**, streamlining information access and improving onboarding for sponsored students.
- Served as **President of the Local Committee**, leading initiatives to support student integration, organizing campus events, and coordinating with national WUSC representatives.

### Software Developer Intern

May. 2022 – Aug. 2022

Maple Bit Services

- Optimized the **POS payment system** using **Python (FastAPI)**, **C++ (gRPC)**, and **PostgreSQL**, achieving **35% faster transactions** by implementing asynchronous processing, caching, and advanced query optimization.
- Built a **distributed Redis caching layer** with **sharding** and **partitioning**, significantly improving database scalability and reducing load under peak traffic conditions.
- Developed an automated **ETL pipeline** to extract, transform, and load POS transaction data into PostgreSQL, enabling efficient real-time reporting and analytics.

## PROJECTS | [View All](#)

**goHere** | *React Native, Map Integration, Geolocation, Firebase*

- Developed features for a public washroom access app improving accessibility for people with Crohn's and colitis.
- Integrated mapping services and geolocation to help users find nearby washrooms and check-in for availability.
- Developed the platform in collaboration with service requesters who commissioned the software, tailoring features and UX to their operational needs

## TECHNICAL SKILLS

**Languages:** Python, JavaScript (TypeScript), C++, Java, R, Bash, Haskell, HTML/CSS

**Frameworks:** Flask, FastAPI, Django, React, Node.js, Express.js, .NET, Angular, LangChain, FAISS, TensorRT

**Cloud & DevOps:** AWS, GCP, Azure, Docker, Kubernetes, OpenShift, Jenkins, GitHub Actions

**Databases:** SQL, Firebase, MongoDB, SQLite, DynamoDB, Neo4j, PostgreSQL, Supabase