

Mondher Ilyes Izemrane

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EDUCATION

University of Toronto

Honours BSc in Computer Science – GPA: 3.77/4.0, Dean's List Scholar

- Coursework: Software Engineering, Web Programming, Operating Systems, Algorithm Design

Toronto, ON

Sep. 2023 – June 2027

PROFESSIONAL EXPERIENCE

Software Engineering Intern

TD Bank

May 2026 – Present

Toronto, ON

- Reduced onboarding support load and service-request preparation time by building an internal agentic automation with human-in-the-loop review, earning **finalist placement in a TD innovation challenge**
- Cut test-case generation time by **50%+** across **7+ legacy processes** by developing an agent to support migration to a new RPA application; validated by the Quality Engineering team
- Accelerated subject-matter expert and business analyst review cycles by engineering the agent to flag inconsistencies in source artifacts during test-case generation

Systems Assurance Intern (Software Developer) – Ontario Line

SYSTRA Canada

Jan. 2026 – Apr. 2026

Toronto, ON

- Reduced manual review effort across **800+ safety requirements** by designing and deploying a **production LLM assurance** platform that verified requirement-to-evidence traceability; approved by SYSTRA and the client contractor
- Limited LLM token usage to **60% of the allocated budget** while processing CAD-heavy evidence packages exceeding **1,000 pages per requirement** by building a chunking, relevance-filtering, and reconciliation pipeline
- Enabled consistent evaluation of **1000s of designer-submitted artifacts** across multiple contracts for **7 Ontario Line South Civil stations** by implementing document retrieval from a platform without a defined API and recalibrating evidence scoring with subject-matter experts

AI Software Engineering Volunteer

Peebles Group

Sep. 2025 – Jan. 2026

Toronto, ON

- Reduced hospitality demand-forecasting time by **80%** by building an analytics platform with data-scraping and ingestion pipelines
- Enabled demand forecasts across multiple locations by implementing a reusable AI agent scraper that collected, structured, and validated event data from **5 sources**
- Eliminated manual analysis by introducing a real-time alert system that detected demand anomalies

Full-Stack Software Engineering Intern

Nodalli

May 2025 – Sep. 2025

Toronto, ON

- Reduced manual career-coaching effort by more than **5 hours per week** across **200+ users** by deploying production-grade Python endpoints
- Improved the reliability of onboarding and retention flows by building a fault-tolerant, event-driven email automation system with Celery and Redis
- Increased platform load capacity by **30%** and reduced the risk of user-facing crashes by improving backend performance and stability before launch

Independent Full-Stack Engineer |

FightSight.dev

Oct. 2024 – Present

Toronto, ON

- Engineered a combat sports prediction platform with **67% machine learning accuracy (15% above baseline)** and implemented request-level caching to reduce compute costs by **47%**
- Designed a full-stack multi-provider authentication system with Clerk and Supabase JWTs, enabling secure access control to premium features for **50+ users** and automating user provisioning in PostgreSQL
- Powered **300+ predictions** by deploying a React + TypeScript frontend and cost-optimized containerized microservices with Docker

LEADERSHIP EXPERIENCE

Tech Lead, Google Developer Group

University of Toronto

Oct. 2025 – Present

Toronto, ON

- Led a hands-on workshop series covering scalable cloud architecture, system design, and AI-enabled development workflows, achieving **60% attendee retention** across events with executives and industry speakers

Computer Science Mentor, Transition Coaching Program

Centre of Student Engagement

Aug. 2024 – Apr. 2025

Toronto, ON

- Improved academic confidence and supported retention for **12+ first-year students** by delivering weekly one-on-one mentorship and targeted, data-driven coaching materials

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, C

Frameworks & Libraries: React, Next.js, Node.js, Flask, Celery, TensorFlow, Scikit-Learn, Pandas

Cloud, Data & Tools: PostgreSQL, Redis, Supabase, Docker, AWS, Google Cloud Platform, Git