

# Feras Mahmood

## GenAI and ML Developer

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### SKILLS

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- Full-Stack Development (Python/JS) & ML Integration
- Scalable Data Pipeline Architecture (ETL/ELT)
- GenAI Architecture and App Development
- Containerization & Orchestration (Docker/K8s)
- Cloud Computing & IAC (AWS/GCP/Azure)
- Model & Data Monitoring/Dashboarding (Grafana/Prometheus)

### EXPERIENCE

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#### Sheridan College

Oct 2025 – PRESENT

*ML Ops Developer/Research Assistant*

*Oakville, Ontario*

- **Platform & Data Governance:** Architected and governed highly scalable data schemas, ingestion pipelines, and automated validation workflows, specifically supporting productionized RAG Agents and sophisticated NLP systems.
- **CI/CD & Reproducibility (Model Lifecycle):** Designed and operationalized the end-to-end Machine Learning lifecycle (MLOps), transforming prototype ML engines into highly reproducible CI/CD pipelines that fully automate feature engineering, model training, and continuous evaluation.
- **High-Volume Production Operations:** Led the deployment, monitoring, and sustained operation of high-impact, containerized ML services, managing infrastructure reliability and scaling to support 20,000+ active users with 99.9% up-time and volume requirements.
- **Cross-Functional MLOps Leadership:** Drove standardization and collaboration across Engineering and Data Science teams, defining operational requirements and implementing best practices to ensure models, vector stores, and data flows were inherently scalable, maintainable, and cost-efficient in production environments.

#### Paradigm Electronics Inc.

May 2024 – Aug 2025

*Data Analyst*

*Mississauga, ON*

- **Data Pipeline Optimization & Automation:** Engineered and scaled robust ETL pipelines and complex SQL transformations using Apache Airflow, resulting in the automated daily, Month-to-Date (MTD), and Year-to-Date (YTD) reporting for Global sales operations.
- **Business Intelligence & Financial Impact:** Developed and deployed key performance indicator (KPI) dashboards for Finance and Sales teams, incorporating automated anomaly detection that directly led to the recovery of \$15,000 CAD in misplaced costs.
- **Strategic Data Analysis & Revenue Growth:** Conducted deep-dive data analysis on product quality metrics and sales performance indicators, providing actionable insights that fueled a documented 20% revenue growth for the organization in Q2, 2024.
- **Full-Stack Development & API Engineering:** Led full-stack development initiatives and deployed REST APIs as scalable solutions. Incorporated API scripting and monitored API performance to ensure reliable, real-time access to critical performance and operational metrics.
- **Workflow Automation & Efficiency:** Executed the deployment of automated batch jobs and background processes that streamlined sales contract management, successfully reducing contract processing time by 45% and improving overall sales workflow efficiency.

### EDUCATION

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#### Sheridan College

Sep 2021 – Apr 2026

*Bachelor's Degree in CS (Data Analytics)*

*Oakville, ON*

- GPA: 3.1
- Achievements: Secured First Place in Capstone Showcase, recognized for innovation, technical excellence, and real-world impact in AI-powered sports analytics

### VOLUNTEERING

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#### Google Developer Group Sheridan

May 2025 – Present

*Workshop Team Member*

- Supported and organized the design and delivery of community tech workshops, helping 100+ attendees gain hands-on experience with Google technologies.