

Osama Yousef

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EXPERIENCE

 **CIBC** | Software Engineer — Data & AI Toronto, ON

Azure · Databricks · Apache Spark · Scala · Java · SQL · ETL/ELT · Pipelines

Dec 2025 – Present

- Rebuilt the legacy application powering anti-money-laundering ML models on Azure Databricks, cutting runtime from **16 hours to 1 hour** after reverse-engineering 12 years of undocumented data and APIs
- Migrated **10+ ETLs** feeding financial-crime ML models and FINTRAC reporting to Azure Cloud, ending an on-prem dependency and a **\$6M contract commitment**
- Own production data and feature pipelines powering financial-crime ML models, FINTRAC regulatory reporting, and investigations, resolving failures that block downstream teams

 **Huawei** | Software Engineer — R&D

Ottawa, ON

Python · Flask · LangChain · vLLM · RAG · LoRA · Hugging Face · PyTorch

Apr 2024 – Jun 2025

- Built an **agentic LLM** interface for 6G network operations that parsed an operator's training goal into structured intent, deploying and configuring distributed AI training jobs across edge nodes
- Enabled **3 teams** to run 6G simulations concurrently by replacing a single-user workflow with a multi-tenant, job-scheduled platform featuring replayable runs and streaming logs
- Built research components showcased at **IEEE GLOBECOM 2024** and **MWC Barcelona 2025**, presenting Huawei's **NET4AI**  vision to **8,000+ industry professionals**

Ivey / Western | Software Developer

London, ON

Java · SQL · PowerShell · Pandas · Automation

Jan 2023 – Apr 2024

- Delivered a **500+ page CMS migration** with zero visual regressions by building a Python/Selenium visual-testing pipeline that cut manual QA by **80%** and kept the launch on schedule

EDUCATION

 **Western University**

London, Ontario

Bachelor of Science — Computer Science

Completed · Dean's Honour List

- Activity:** Led a team of 25+ volunteers to coordinate orientation programs for 300+ incoming students
- Scholarship:** Recipient of Western Scholarship of Distinction

PROJECTS

EXO  — Health AI Agent | TypeScript, Swift, Bun, LLMs, PostgreSQL

- Built and launched **EXO**, an AI health agent that coordinates specialist agents, tools, and persistent memory to deliver structured, inspectable health analysis
- Grew **EXO** from launch to **300+ users worldwide**, owning product, growth, and iteration

OutHives  — AI-Native Marketplace | Next.js, React Native, Node.js, AWS

- Built and launched a web and mobile marketplace spanning **20+ categories** and **50+ providers**, owning the product end-to-end from user research and UI/UX through APIs, data architecture, and cloud delivery
- Built the marketplace's production platform—including real-time chat, payments, geolocation, media, and authentication—with Socket.IO, BullMQ, Redis, CI/CD, and production monitoring

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, Scala, SQL, HTML/CSS, Bash

Backend & Web: React, Next.js, Node.js, Flask, React Native, PostgreSQL, Redis

AI/ML: PyTorch, vLLM, LangChain, RAG, LoRA, Hugging Face, OpenAI API

Data & Infra: Spark, Databricks, Azure, AWS, Kafka, Docker, CI/CD, Prometheus, Grafana

