

Sam Yousef

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EXPERIENCE

 **CIBC** | Software Engineer — Data Toronto, ON
Azure · Databricks · Apache Spark · Scala · Java · SQL · ETL/ELT · Pipelines Dec 2025 – Present

- Cut a critical legacy data job's runtime from **16 hours to 1 hour** by reverse-engineering 12 years of undocumented data and API contracts and rebuilding it on Azure Databricks
- Migrated **10+ financial-crime ETLs** to Azure Databricks, redesigning their data-access patterns to eliminate the firm's on-prem dependency and its associated **\$6M contract commitment**
- Own production data pipelines supporting FINTRAC regulatory reporting and investigations, resolving failures and access issues that block downstream teams

 **Huawei** | Software Engineer — Advanced Wireless Technology Ottawa, ON
Python · Flask · LangChain · vLLM · RAG · LoRA · Hugging Face · PyTorch Apr 2024 – Jun 2025

- Built an **agentic LLM** interface that let network operators launch distributed AI training across edge nodes using natural-language goals
- 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  — AI Health Product | TypeScript, Swift, Bun, OpenAI, PostgreSQL

- Built and launched **EXO**, an AI health product that coordinates specialist agents, tools, and persistent memory to deliver structured, inspectable health analysis
- Built a multi-model evaluation harness to test health-agent responses for unsupported claims, tool-selection errors, and inconsistent reasoning before release

OutHives  — Web & Mobile Marketplace | Next.js, React Native, Node.js, PostgreSQL, AWS/GCP

- Built and launched a web and mobile services 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

