

PETER YOUSEFI

Software Developer | Cloud Computing & AI Operations

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EDUCATION

Trent University — B.Sc. Computer Science Sep 2023 – Jun 2026

PROFESSIONAL SKILLS

Cross-Functional Collaboration
Stakeholder Communication
Process Improvement & Cost Optimization
Team Leadership & Mentorship

TECHNICAL SKILLS

Prompt Engineering & LLM Evaluation
Cloud Infrastructure (AWS, Databricks)
RAG Pipeline Development
API Integration & OCR

PROJECTS

Lumina — AI Marketing Campaign Generator 2026

Personal Project | github.com/PeterYousefi/Lumina

- Small business owners were losing hours per campaign writing copy, sourcing images, and tying promotions to relevant local events, so I built a Flask app that turns a business description into a full ready-to-publish campaign in minutes.
- Directed IBM watsonx (Granite) through a five-step workflow to research nearby events and generate on-brand captions, email copy, and imagery, while keeping every field owner-editable before anything goes live.
- Designed a full offline fallback mode so the tool runs end-to-end with zero API keys, which taught me a lot about building AI products that degrade gracefully instead of breaking.

GeoShield (WildfireGIS) — Civic Notification Tool 2026

IBM AI Builders Challenge | github.com/PeterYousefi/GeoShield

- Land managers were spending 2–4 hours per prescribed burn manually identifying which municipality a burn boundary touched, tracking down the Mayor and Fire Chief's contact details, and drafting a notification email. I automated the entire chain down to under 90 seconds.
- Directed an AI model to draft calm, professional civic notifications, and built in flags for any unverified contact so a human always reviewed before sending.

Legacy Modernizer — Multi-Agent Code Modernization Assistant 2026

IBM AI Builders Challenge | github.com/PeterYousefi/LegacyModernizer

- Enterprises running decades-old COBOL systems are losing the engineers who can still read them, so I built a four-agent pipeline that parses legacy code, extracts the business rules buried inside it, and converts outdated data structures into modern SQL.
- Directed IBM watsonx to draft plain-English rule explanations and generate a validating test suite, flagging any low-confidence extraction for human review so nothing ships until a person confirms the logic still holds.

PROFESSIONAL EXPERIENCE

Grader, Trent University Sep 2025 – Dec 2025

Oshawa, ON | Grading under Professor Alaa Alsiaity

- Generic marks weren't helping students catch up, so I left detailed comments on every assignment pointing to the exact concept or resource behind each mistake instead of just marking it wrong.
- Ran one-on-one debugging sessions focused on teaching students how to isolate a bug themselves, rather than just handing over the fix.

VP of Social / Social Director, SCS & ECA Concordia Sep 2021 – Dec 2022

Montreal, QC

- Turnout for society events had been flat, so I rebuilt the event calendar around direct member feedback and delegated ownership across an 8-person committee. Flagship nights like Lizard Lounge and the Wine & Cheese mixer helped grow participation by 40%, and the society won "Event of the Year" twice across 12 competing societies.
- Acted as the on-the-ground point of contact for 200+ attendees and a rotating volunteer team, resolving problems in real time while keeping new students feeling welcomed rather than lost in the crowd.

ADDITIONAL INFORMATION

- **Certifications:** AWS Databricks Cloud Integrations, Python 101 for Data Science, Data Workshop – Level 2
- **Awards:** "Event of the Year" (2× winner) — SCS Concordia & ECA Concordia, out of 12 competing societies
- **Outside of work:** following where cloud and AI tooling are headed next, and unwinding with real-time strategy games.