

Khush Golani

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EDUCATION

Carleton University

Bachelor of Computer Science, Honours

Ottawa, ON

2022 – Present

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, SQL, HTML/CSS

Web & Backend: React, React Native, Node.js, Django, Supabase, Vite, Tailwind CSS

Tools: Git, Docker, Postman, Selenium, Figma, Google Colab

AI/ML: TensorFlow, NumPy, Pandas, Matplotlib, reinforcement learning, Cogentiq

EXPERIENCE

Project Intern

Jun 15 – Jul 15, 2026

Fractal Analytics (Canada) Inc.

Canada

- Designed the end-to-end architecture for an Enterprise Context Engine MVP, spanning company-context ingestion, industry analysis, business-need extraction, solution mapping, and narrative generation.
- Developed contextualization agents across multiple AI agentic platforms, used findings from each platform to shape a generalized solution architecture.
- Wrote custom AI skills and structured agent instructions for extracting client needs, matching Cogentiq use cases, scoring relevance, and identifying unmet needs and product gaps.
- Evaluated agent output quality, tool extensibility, and platform constraints; defined source-backed guardrails and standardized inputs, outputs, and test cases for repeatable workflows.

Tech Lead

Aug 2025 – Dec 2025

Prototyp3

Ottawa, ON

- Built and deployed the website and application portal in 3 weeks using React, TypeScript, and Supabase, including onboarding and applicant management for the first developer cohort.
- Led full-stack delivery and deployment; reviewed code and mentored beginner developers.

Software Team Lead

May 2025 – Dec 2025

PixlNext

Ottawa, ON

- Led 4 developers building the STO Education Platform, with OAuth authentication, payment integration, live classes, and a cross-platform desktop application.
- Managed sprints and code reviews; redesigned the UI/UX using Vite, TypeScript, and Supabase.

PROJECTS

F1 Strategy Analyzer | *Reinforcement Learning*

2026

- Built a Deep Q-Learning system for pit-stop optimization with safety-car prediction; developed simulations and evaluation pipelines for tire degradation, pit timing, and race outcomes under uncertainty.

Carleton Route Planner | *Graph Algorithms*

2025

- Built campus routing logic and interactive visualizations using graph traversal and pathfinding, considering walking efficiency, accessibility, and building connectivity.

LEADERSHIP

Chief Financial Officer

2026 – Present

Carleton CUSEC Society

Ottawa, ON

- Prepare budgets and funding applications; coordinate CUSEC bus quotes and club financial administration.

Operations Technology Manager

Feb 2023 – Present

McDonald's Canada

Ottawa, ON

- Lead the store's technology operations and preventive maintenance as OTP Manager, supporting crew with operational systems and troubleshooting technology issues during shifts.
- Recognized as Employee of the Month three times and Shift Leader of the Month.

ACHIEVEMENTS

1st Place, Carleton Coding Challenge (2024); 4th Place, Ciena Coding Challenge (2024), building a dynamic DHCP server under time constraints.