

Sparsh Kochhar

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EDUCATION

University of Toronto

Bachelor of Applied Science in Computer Engineering

Toronto, ON

Expected Apr. 2028

EXPERIENCE

Machine Learning Engineering Intern

May 2026 – Present

Shopify

Toronto, ON

- Engineer features across the AI agent stack on Shopify's **Applied ML** team, shipping to production AI systems on Shopify's consumer surface
- Validate agent reliability with **model evaluations** and **load tests**, and resolve production bugs before release

Lead Software Engineer, Voice AI

Oct. 2025 – Jul. 2026

Perfecti.io – Enterprise voice AI platform for mortgage industry (via Call Fusion acqui-hire)

Toronto, ON

- Leading platform rollout to **8,000+ mortgage brokers** through **M3 Mortgage Group** (Canada's largest mortgage network), building AI voice agents that automate lead qualification, appointment booking, and callbacks
- Cut voice AI first-response latency to **sub-600ms** by architecting a real-time streaming pipeline (**Deepgram STT**, **GPT-4o**, **ElevenLabs TTS**) with progressive sentence extraction and streaming TTS playback
- Enabled zero-downtime deployments and durable call retry logic by deploying **3 microservices** on **AWS** (ECS Fargate, Aurora, CDK) with **Temporal** workflow orchestration and CI/CD via GitHub Actions

Co-Founder

Aug. 2023 – Sep. 2025

Call Fusion (Exited) – B2B AI voice agent startup; backed by UofT Hatchery, RippleX Ventures

Toronto, ON

- Negotiated acqui-hire exit with **6-figure equity compensation** after scaling to **150,000+ automated calls** for **20+ B2B clients**, saving an estimated **\$1.2M+** in annual costs by replacing full-time dialers
- Grew revenue to **\$8K MRR** with **\$100K+** in signed contracts; reached **top 5 of 140+ teams** in UofT Hatchery's **\$105K** incubator competition and positioned to close **\$230K investment** at **\$2M valuation**
- Architected a multi-tenant voice AI platform supporting **99 agent configurations** across **20+ clients** without per-client code changes, using per-agent **FAISS** knowledge bases, **Redis** call queuing, and **Celery** task scheduling
- Automated the full sales pipeline from first call to CRM update by integrating with **Salesforce**, **HubSpot**, and **Google Calendar** via OAuth, plus an AI-powered **SMS chatbot**, **live call transfer** via RabbitMQ, and batch campaign dispatch processing **thousands of calls weekly**

Software Engineer Intern, AI/ML

May 2025 – Aug. 2025

Hexaware Technologies

Toronto, ON

- Cut IT ticket triage by **1,000+ hours/month** via a 3-tier ML pipeline for **50,000+ tickets/mo** – embedding-based cosine-similarity routing across **10 categories** and a **5-layer automation cascade**
- Built a real-time interview malpractice detection system tracking **478 facial landmarks at 30fps** via MediaPipe, with custom **2D head pose estimation**, personalized calibration, and duration-based false positive filtering

LEADERSHIP

President & Founder, Claude Builder Club

Jan. 2026 – Apr. 2026

Anthropic Claude Ambassador – University of Toronto

Toronto, ON

- Founded UofT's official Claude Builder Club (**450+ members**), building a student AI community through workshops on **MCP servers**, **agentic AI**, and **context engineering**, and guest-presenting a live build-along to **200+ students** at **CUCAI** (Canada's largest undergraduate AI conference)

PROJECTS

TalkLogic – **2nd Place Overall**, GeeseHacks 2025 | *Next.js, LangChain, FAISS, WebSockets*

Jan. 2025

- Built an AI testing platform deploying **autonomous simulation agents** to stress-test conversational AI across thousands of scenarios, using **FAISS** semantic similarity to detect hallucinations **50x faster** than manual review

TECHNICAL SKILLS

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

AI/ML: TensorFlow, PyTorch, LangChain, OpenAI API, FAISS, RAG, NLP, Prompt Engineering, Agentic AI

Cloud & Infrastructure: AWS (CDK, ECS Fargate, Aurora), GCP, Azure, Docker, Kubernetes, PostgreSQL, Redis

Frameworks & Tools: FastAPI, Flask, Django, React, Next.js, Git, WebSockets, Celery, Claude Code