

Sehmim Haque

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EXPERIENCE

Fullstack Developer

COGECO Inc

March 2025 – Present

Montreal, QC

Tech Stack: React, TypeScript, Next.js, GraphQL, LangChain, Pinecone, DialogFlow, GPT-4, CSS/HTML

- Architected a production RAG pipeline (Pinecone, LangChain, Python) backed by a DialogFlow bot that autonomously resolved customer inquiries and scheduled technician appointments by syncing live availability via cron, reducing inbound support volume by 30%.
- Built an automated marketing asset pipeline using Adobe Firefly. Integrated Firefly APIs (Generate, Fill, Expand) powered by Image Models (v3/v4) into CMS to enable on-demand asset generation and scalable content production.
- Secured a customer-facing LLM deployment against prompt injection and scope violations using layered system prompt constraints and a secondary fact-checking model that intercepted and corrected hallucinations before response delivery.
- Architected migration from React to Next.js with WCAG 2.1 AA accessibility and i18n support, improving SEO by 35% and reducing page load times by 40%.

Fullstack Developer

Newforma Inc

May 2021 – Jan 2025

Montreal, QC

Tech Stack: React, TypeScript, Express.js, Docker, AWS, Azure, DynamoDB, PostgreSQL

- Built an LLM classification pipeline that parsed email content and attachments to automatically route communications into the correct project context, replacing a manual triage process and reducing categorization overhead by ~70%.
- Shipped Outlook and Microsoft Teams plugins abstracting host-application sandboxing and cross-origin constraints to create a seamless email-to-SaaS filing workflow that doubled project data ingestion into the core platform.
- Built backend micro services for revenue calculation and partner payout automation, reducing manual labor costs by 90% and eliminating calculation errors across global markets.

Backend Developer Co-op

Scotiabank

Jan 2019 – Jan 2020

Toronto, ON

Tech Stack: React, Redux, TypeScript, Node.js, MySQL, AWS, Serverless, Express, Docker, GitHub Actions

- Built an NLP-powered chatbot for the dividend trading desk that automated recurring statistical queries, saving analysts 2-3 hours per week previously spent manually pulling and cross-referencing market data.

PROJECTS

Spotthis.fit

- AI deepfake and AI-generated content detection bot with 100+ active users.
- Prototyped and shipped end-to-end: problem scoping, API orchestration, confidence scoring logic, and user-facing response pipeline.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, Python, Node, Next, CSS/HTML, React Native, React, .NET, FastAPI

AI: LLMs, RAG pipelines, Pinecone, LangChain, prompt engineering, vector databases, AI agent frameworks

EDUCATION

York University (Toronto, Canada)

Computer Science