
Work Experience

Software Development Intern	Ericsson	Montréal, May 2025 – Present
• Repository scanning service. – Designed, implemented, deployed, and maintained on air-gapped Linux (Ansible + Docker blue-green, Nginx SSL/TLS). – High-throughput access-control compliance and secret detection across a large repository estate (Python, FastAPI, RabbitMQ, MinIO, Postgres, parallel workers). – Secured REST API on the internal identity provider for confidential scan results. • Security risk database. – Next.js app replacing spreadsheet tracking so product owners log, track, and resolve risks and vulnerabilities. – Integrated an MCP server for agentic AI workflows and automation. – React TypeScript, Tailwind CSS, Microsoft Entra RBAC, PostgreSQL, Valkey-backed audit log, and notifications. – Secured REST API for other enterprise systems; supports organization-level project management and business operations. • Agentic AI compliance assessment tool. – Built Vite frontend and Python backend for compliance control assessment. – Evaluates controls in parallel via a self-hosted open-weight LLM. – Retrieval Augmented Graph (context chunking, provenance) for evidence-based, ranked verdicts. • Ericsson Software Technologies est.tech site. – Overhauled the UI and UX, style, and content presentation. – Added global contextual fuzzy search. – Added rich text and markdown rendering for posts and articles. • Deployed a microservice Git SCM platform on AWS and internal cloud infrastructure. • Contributed visualization providers and zoom/scroll fixes to an open-source tracing IDE (Eclipse ecosystem).		
Principal Founding Developer	Waatr	Toronto, Jan. 2026 – Present
• Built a multi-tenant data intelligence platform: Next.js, Hono API, Clerk auth, PostgreSQL (Cloud SQL) with row-level security for tenant isolation. • Designed and built the S3-compatible object storage layer for tenant knowledge vaults: tenant-prefixed versioned keys, presigned uploads to bypass platform upload limits, chunked import for large files, and orphan-cleanup sweeps. • Built a Slack assistant (Block Kit) and MCP integrations connecting the platform to agentic AI clients. • Deployed end-to-end the application stack on Google Cloud Platform • Deployed and maintained Cloud SQL: IAM-scoped access, connection pooling, and RLS sized for concurrent multi-tenant load. • Automated infrastructure provisioning with OpenTofu (IaC): Cloud Run, Workload Identity Federation, Cloud SQL, and load balancers.		
Senior Software Developer	Brake	Toronto, Apr. 2024 – Sep. 2025
• Shipped multiple product features and an MCP server, lifting engagement and retention substantially. • Integrated third-party Maps, Events, and LLM APIs; reduced edge-function cost materially.		
Simulation Software Consultant	SimWell	Laval, Jan. 2024 – Sep. 2024
• Designed a SaaS architecture for simulation operations. • Built Azure container pipelines for build/test/deploy; implemented OIDC with Entra ID.		
Software Development Intern	Microsoft	Montréal, Jan. 2023 – Apr. 2023
• Built an authentication service on AKS with NestJS; implemented TLS on REST and gRPC service-to-service communication. • Built CI/CD pipelines with Docker, Kubernetes, and Helm on GitLab and Azure DevOps.		
Software Developer	Genetec	Saint-Laurent, May 2022 – Aug. 2022
• Shipped two features on a Windows desktop application (WPF, C#). • Built and managed multiple Azure DevOps pipelines across products and operating systems, including repositories, APIs, developer tooling, automation, and Docker orchestration.		
IT Specialist	Genetec	Saint-Laurent, Aug. 2021 – Dec. 2021
• Managed on-premise AD and Azure AD, incident response and investigation, hardware/software asset lifecycle, and infrastructure and workflow improvements.		

- Resolved complex hardware, software, and network issues across Windows, Linux, macOS, and remote servers; investigated and escalated incidents; maintained the team knowledge base and contributed to the university’s high-performance computing group.

Education

Montreal	LaSalle College	2024 – 2027
• Technical Degree in Computer Science. In Progress (expected May 2027).		
Ste-Anne-de-Bellevue	John Abbott College	2017 – 2020
• Pure and Applied Science. Completed.		

Projects

- **F1 Stalker.** Cross-platform desktop dashboard for tracking F1 season races and standings. Rust.
- **OpenF1 API SDK.** Multi-language SDKs for the OpenF1 API. TypeScript, Rust, Go, Python; Turborepo monorepo.
- **ChordlyDLLM.** Song chord transcription and lyrics synchronization with local LLM refinement and live playback. Python, CNN + CRF, FastAPI, Vite.js.
- **Reroll.ing.** Full-stack gacha (FGO) simulator. Next.js, Golang Gin, Python, SQLite, Nginx, Cloudflare.
- **Tailflare.** Golang service syncing hostnames between Tailscale and Cloudflare, with a companion web GUI (**Tailflare UI**).
- **Inertial Sensing Lab Teaching Site.** FRQNT-funded project. Next.js, Cloudflare Workers, Sanity CMS.
- **GCES Concordia Homepage.** Redesigned the GCES student organization website, integrating a CMS/content database, improving SEO, and setting up CI/CD.
- **Homepage.** Personal site built with Next.js, deployed on Cloudflare Workers.

Additional Experience and Awards

- **Advisor, Technology, GCES Concordia:** Mentored successors, planned product vision, and architected a new competition-scoring platform.
- **Mitacs Business Strategy Internship:** Built a distributed computing platform at SimWell.
- **VP, Technology, GCES Concordia:** Led and maintained technology assets: revamped websites, improved the knowledge base, and integrated competition scoring sheets.

Skills

- **Languages:** TypeScript/JavaScript, Python, Go, Java, Kotlin, Rust, C, C++, C#, SQL, GraphQL, HTML, CSS
- **Frameworks, Libraries:** React, Tailwindcss, FastAPI, Django, Gin, Springboot, Spark, Tokio, Yew, glibc, Boost, .NET, Drizzle, Prisma, SQLAlchemy
- **Service Components:** RESTful API, gRPC, RabbitMQ, MinIO, Garage S3, Nginx load balancer, HAProxy, Redis Cache
- **Cloud & Infrastructure:** AWS, GCP, Azure, Docker, Kubernetes, OpenTofu/Terraform, CI/CD, Ansible, ELK stack, Grafana, Prometheus
- **AI/ML & Agentic Systems:** LangChain, Langfuse, Ollama API, vLLM, llama.cpp, RAG, Vector Databases, Agent Orchestration, MCP
- **Architecture & Practices:** Full-Stack Development, System Design, DevSecOps, Distributed Systems
- **Spoken Languages:** English (fluent), French (advanced), Vietnamese (fluent)