

Skills

- Programming: TypeScript/JavaScript, Go, C#, C++, C, Java, Python, Rust
- Tooling & Technical: {Azure, AWS, Google} Cloud, Git{hub,lab}, Cloudflare, Vercel, Nextjs, Spring, .NET, Docker, Kubernetes, Linux/Windows/macOS, Virtualization, WebSocket, SQL, NoSQL, Redis/Memcache, Shell script
- Concept & pattern: CI/CD, DevSecOps, Platform engineering, Automation, {Unit, Acceptance, Integration, Regression, Load} testing
- English (fluent), French (advanced), Vietnamese (fluent)

Employment

Senior Software Developer *Brake Technologies Inc.* April 2024 – Now

- Implemented 4 new critical features driving up user engagement and retention on the platform by 150%.
- Integrated Google Maps, Google Events, and OpenAI API services for content generation and optimized edge function executions, reducing operational costs by 25%.
- Implemented multiple backend services and extended SQL database schemas to accommodate new features.
- Wrote integration and unit test suites for both frontend and backend; maintain CI/CD pipeline on Github; remediated security vulnerabilities.

Simulation Software Consultant *SimWell Inc.* Jan. 2024 – Sep. 2024

- Designed and developed a Software-as-a-Service architecture specialized for process and digital twin simulation operations.
- Created CI/CD pipelines for building, testing, and deploying microservice containers to Azure cloud.
- Designed and developed a responsive frontend, highly-adaptable for displaying data and managing organizational scopes.
- Set up application security policies and measures following the OWASP framework on Azure and Microsoft Entra.

Software Developer *Microsoft Corporation* Jan. 2023 – Apr. 2023

Cloud & AI

- Implemented a new authentication service in the product stack on Azure K8s Service using Nestjs framework.
- Hardened system security by implementing TLS encryption for microservice communication protocols (ReST, gRPC) with K8s gateways and proxies.
- Reduced toil in DevOps with automated vulnerability patching with Ansible for Linux VM fleet and generated observable patch logs.
- Contributed to organization's internal technical documentation on implementing service-to-service encryption.

Software Developer *Genetec Inc.* May 2022 - Aug. 2022

Software Configuration Management Team

- Implemented 2 new features for a Windows language translation management software in WPF and C#.
- Configured 10+ build and deploy pipelines for across company's product portfolio and OS environments on Azure DevOps.

Education

Montréal, QC. *LaSalle College* Fall 2024 – Now

- Technical Degree in Computer Science. Expected to graduate in December, 2026.

Montréal, QC. *Concordia University* Fall 2020 – May 2024

- Bachelor in Computer Engineering.

Projects

- [Tailflare UI](#). The web-based GUI version of Tailflare the CLI. Next.js + Tailwindcss.
- [Apple Music Improved Rich Presence](#). Extended an open source project to scrape Apple Music app on Windows currently playing status to display on websites instead of Discord. C#, .NET, Nextjs (frontend).
- [Reroll.ing](#). Gacha game simulator. Golang (server), Nextjs (frontend), SQLite, Python (data), Docker.
- [Script Convenience Store](#). Shell scripting and automation.

Additional Experience and Awards

- **Advisor, Technology, GCES Concordia (2024-now)**: Mentor 2 successors, plan visions for more utility products, create architecture for a new software product for competition scoring.
- **VP, Technology, GCES Concordia (2023-2024)**: Led and maintained technology assets: revamped websites, improved knowledge base, integrated competition scoring sheets.