

Employment

Full-stack Software Developer *Brake Technologies Inc.* April 2024 – Now

- Implemented 3 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 – May 2027

- Technical Degree in Computer Science.

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

- Bachelor in Computer Engineering.

Projects

- **Tailflare.** Sync device hostnames from Tailscale to Cloudflare subdomain. Golang.
- **Tailflare UI.** The web-based GUI version of Tailflare the CLI. Next.js + Tailwindcss.
- **Apple Music Improved Rich Presence.** Extended an existing open source project that scrapes 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), container.
- **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.

Languages, Skills and Technologies

- TypeScript/JavaScript; Go, C++; C; Java; SQL; Python; Rust
- Visual Studio (Code); Azure/Google/Amazon Cloud; Github Actions; Cloudflare; Vercel; Nextjs; Spring Boot; Docker; Kubernetes; Linux/Windows/macOS; Virtualization; WebSocket; CI/CD; DevSecOps; SQL, in-memory caches, KV database; Platform engineering; Shell scripting; Automation; Unit/UAT/Integration/Regression/Load testing
- English (fluent), French (advanced), Vietnamese (fluent)