Anh Hoang Nguyen

anhnguyen@aaanh.com
Linkedin | Github | Website

Work Experience

Software Development Intern *Ericsson* **Montreal – May 2025 – Now**
- Developed a data-intensive full-stack application in the security domain and set up enterprise-grade infrastructure and processes.
- Delivered cross-platform features in Java, React TypeScript, and Python that enhanced the functionality of Trace Compass, an open-source performance analysis tool.
- Drove collaboration with research and industry partners to define requirements and successfully integrate new capabilities into Trace Compass.
- Developed a proof-of-concept for Docker container tracing and trace correlation, extending Trace Compasss applicability to modern containerized environments.

Senior Software Developer *Brake Technologies Inc.* **Canada – April 2024 – Now**
- Implemented 4 new critical features and an MCP server, driving up user engagement and retention on the platform by 150% and helping acquisition of business partnerships.
- Integrated Google {Maps, Events} and OpenAI API services for content generation and optimized edge functions, reduced operational costs by 25%.
- Implemented multiple backend services and extended SQL database schemas to accommodate new features.

Simulation Software Consultant **SimWell Technologies** **Montreal – Jan. 2024 – Sep. 2024**
- Designed and developed a Software-as-a-Service architecture specialized for process and digital twin simulation operations.
- Configured building, testing and deploying microservice containers to Azure cloud, and OIDC integration with Entra ID

Software Development Intern **Microsoft** **Montreal – Jan. 2023 – Apr. 2023**
- Implemented a new authentication service in the product stack on Azure K8s Service using Nestjs framework.
- Hardened k8s security by implementing TLS encryption for microservice communications (ReST, gRPC).

Software Development Intern **Genetec Inc.** **St-Laurent – May 2022 - Aug. 2022**
- 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 (2024-2025):** 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.

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
- Concepts: CI/CD, DevSecOps, Platform engineering, Automation, {Unit, Acceptance, Regression, Load} testing
- English (fluent), French (advanced), Vietnamese (fluent)