

Anh Hoang Nguyen's Resume

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Introduction

I actively work on full-stack web applications, micro-service architecture, API development and machine learning research projects in natural language processing (NLP).

I love collaborating with peers and like-minded people to create meaningful projects.

Professional Experience

SimWell (Laval, QC.)

Simulation Software Consultant – MITACS Research Internship – (Jan 2024 – TBD)

- Design & develop a distributed, full stack microservice architecture for digital twin solution models.
- Design & develop DevOps system and CI/CD pipeline on Bitbucket and Azure.

Microsoft + Nuance (Montreal, QC.)

Software Developer – Internship – (Jan 2023 – May 2023)

- Developed a new authentication micro-service platform using Nestjs and gRPC.
- Configured and deployed using Kubernetes and Helm.
- Implemented security enhancements for service-to-service connections across clusters with TLS.
- Automated patching process for multiple Linux VM nodes with Ansible.

Genetec (Saint-Laurent, QC.)

Software Developer – Internship – (May 2022 – September 2022)

- Completed 2 projects involving migration to on-premises Docker container cluster.
- Created and maintained software build/release pipelines for cross-platform software projects.

IT Specialist – Internship – (August 2021 – December 2021)

- Performed infra and workflow improvements, tested hardware/software compatibility, managed Active Directory and Endpoint, and utilized shell scripting.

Notable Projects

- FGO Gacha Simulator – <https://reroll.ing> (Go Gin, Python, Nextjs, Docker, Github Actions, Nginx)
- Personal URL Shortener – <https://anh.to> (Cloudflare Workers, KV store)
- Portfolio Site – <https://aaanh.com>
- GPT Web Client - <https://gpt.aaanh.app> (OAI API)
- Script Convenience Store - <https://script.aaanh.app/> (Rust, automation, bash, pwsh scripting)
- GCES Concordia - <https://gcesconcordia.com> (Nextjs, Tailwindcss, SanityCMS)

Skills

- Languages: TypeScript, Java, C, C++, Golang, Python, Rust, HTML, CSS, PowerShell, bash.
- Platform: Linux, Windows, macOS, qemu, Hyper-V, Docker, cri-o, kubernetes, helm, Ansible.
- Networking: nginx, calico, caddy, firewall.
- Security: (m)TLS, OAuth2, SAML2, jwt, OIDC.
- Data: postgres, mysql, CosmosDB, mariadb, redis, memcache, Cassandra, Kafka, RabbitMQ
- Linguistics: Vietnamese (native), English (native), French (B1), Japanese (JLPT N5), German (A1)

Volunteering

- VP, Technology (2023-2024) at [Gina-Cody School Entrepreneurship Society at Concordia University](#)
- Director, Logistics (2021-2022), Photographer (2023-2024) at [HackConcordia](#)

Education

- Bachelor of Engineering (2020 – 2024), Concordia University, Montreal, QC.