# 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://scripts.aaanh.app (Rust, automation, bash, pwsh scripting)
- GCES Concordia - https://gcesconcordia.com (Nextjs, Tailwindcss, SanityCMS)

## Skills

- Languages: TypeScript, Java, C, C++, Python, Go, Rust, HTML, CSS, PowerShell, bash.
- Platforms: Linux, Windows, macOS, qemu, Hyper-V, Docker, cri-o, kubernetes, helm, Ansible.
- Networking: nginx, calico, caddy, firewalld.
- Security: (m)TLS, OAuth2, SAML2, jwt, OIDC.
- Database: postgres, mysql, CodmosDB, mariadb, redis, memcache.

## 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.
- DEC in Applied Sciences (2017 – 2020), John Abbott College, Sainte-Anne-de-Bellevue, QC.