

# Anh Hoang Nguyen's Resume

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## Professional Experience

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### SimWell (Laval, QC.)

Simulation Software Consultant – Mitacs Research Internship – (Jan 2024 – Now)

- 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 (Montréal, 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.

### Concordia University (Montréal, QC.)

IT Analyst 2 – Part-time – (January 2021 – May 2023)

## Notable Projects

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- FGO Gacha Simulator – <https://reroll.ing> (Go Gin, Python, Nextjs, Docker, Github Actions, Nginx)
- Personal URL Shortener – <https://anh.to> (Cloudflare Workers, KV store)
- Tailflare – <https://github.com/aaanh/tailflare> (Sync Tailflare with Cloudflare DNS, written in Go)
- Portfolio Site – <https://aaanh.com>
- Script Convenience Store - <https://script.aaanh.app/> (Rust, automation, bash, pwsh scripting)
- GCES Concordia - <https://gcesconcordia.com> (Nextjs, Tailwindcss, SanityCMS)

## Skills

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- 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, firewallD, DNS, reverse proxy, CORS.
- Security: (m)TLS, OAuth2, SAML2, jwt, OIDC.
- Data: Postgre/MySQL/ite, memcache, Cassandra, Kafka.

## Volunteering

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

## Education

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