

Anh Hoang Nguyen's Resume

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Introduction

I actively work on modern web applications, APIs, frameworks and machine learning research projects in natural language processing (NLP) and computer vision (CV).

Professional Experience

Software Developer — Internship (1/2023 — 5/2023)

[Nuance Communications](#) + [Microsoft](#), Montréal, QC.

AI-backed solutions in healthcare and customer service industry.

- Developed backend API, microservices platform, and deployed using Kubernetes and Helm.
- Implemented security enhancements for service-to-service communications across clusters.
- Automated VM patching process with ansible and cronjobs.

Research Assistant in Software Development and Platform Engineering — Contract, Part-time (9/2023 — TBD)

[CERC Next-Generation Cities](#), Montréal, QC.

Smart, Sustainable and Resilient Communities and Cities.

- Research and build information system platforms across software product lifecycle.
- Develop Big Data operational pipelines, CI/CD solutions, and monitoring capabilities.

Full-stack Developer — MITACS Internship (In progress, 2023-2024)

[SimWell Inc.](#), Montréal, QC.

Digital twin simulations and custom supply chain solutions.

- Architect, develop, and deploy distributed front-end application for managing simulation models and backend API for manipulating model database.
- Stack: Python Django, React JavaScript/TypeScript, and others TBD.

Software Developer in SCMT/DevOps — Internship (5/2022 — 9/2022)

Hardware and software in physical security, access control, and unified security center.

[Genetec Inc.](#), Saint-Laurent, QC.

- Completed 2 projects involving migration to on-premise Docker container cluster.

- Created and maintained software build/release pipelines for web app, native Windows, native Linux.

Research Assistant — Casual (1/2021 — now)

[SAC Research Group, Concordia University.](#)

- Evaluated MLaaS platforms, developed assessment framework, and contributed to research on explainable AI (XAI).
- Replicated experiments, ran NLP models for classification on non-Latin datasets, and maintained group's website.

Full-Stack Developer — Contract (1/2021 — now)

[Inertial Sensing Lab, Montreal, QC.](#)

- Built and maintained project website, including architecture, UI/UX design, web hosting, networking, security, and IAM.

IT Technician L2 — Part-time (3/2021 — now)

[Academic IT Services, Concordia University.](#)

- Provided frontline support, investigated complex issues, suggested process improvements, and maintained lab functionality across Windows, Linux, and macOS platforms.
- Contributed to high performance compute cluster Speed.

IT Specialist — Internship (8/2021 — 12/2021)

[Genetec Inc., Saint-Laurent, QC.](#)

- Performed infra and workflow improvements, tested hardware/software compatibility, managed AD/Endpoint, and utilized PowerShell/bash scripting.

Notable Projects

- Portfolio Site - <https://aaanh.ca>
- GPT Web Client - <https://gpt-demo.aaanh.app>
- Script Convenience Store - <https://aaanh.app>
- NAG-DevOps/speed-hpc - <https://github.com/NAG-DevOps/speed-hpc>
- Personal Photo Reels - <https://photos.aaanh.ca>
- Personal URL Shortener - <https://s.aaanh.ca>
- Data Object Parse and Meaningful Graph Traversal - <https://github.com/aaanh/meaningful-graph-traversal.git>

Volunteering

- VP Technology @ [Gina Cody School Entrepreneurship Society](#) (2023 — 2024)
- Photographer @ [HackConcordia](#) (ConUHack VII, 2023)

Education

- Bachelor of Engineering (2020 — 2024) @ Concordia University, Montréal, QC.
- DEC in Applied Sciences (2017 — 2020) @ John Abbott College, Ste-Anne-de-Bellevue, QC.