

# Duc Nguyen

Full-Stack / Platform Engineer  
ducngn.com

duc.duke.ngn@gmail.com  
linkedin.com/in/ducngn  
github.com/DucNgn

## WORK EXPERIENCE

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### Wealthsimple, Senior Software Developer

July 2025 - Present

#### Machine Learning Platform

- Reduced feature duplication and accelerated model experimentation by architecting a centralized Feature Store adopted across ML teams
- Powered client-facing features serving 100K+ clients by architecting a modular LLM platform for testing, hosting, and iterating on LLM pipelines
- Reduced ML experimentation cycle time by 80% by building a GPU-backed Remote Interactive Training Environment
- Strengthened security posture, improved stability, and reduced downtime by leading Kubernetes migration of ML Platform services
- Enabled autoscaling model endpoints and reduced deployment time by driving migration to Amazon SageMaker inference

### Wealthsimple, Software Developer

Aug 2023 - June 2025

#### Machine Learning Platform

- Enabled efficient fine-tuning and deployment of LLMs by initiating and leading development of a reliable, scalable ML pipeline
- Boosted company-wide productivity by designing and deploying an AI assistant used daily by 90% of the company, enabling secure interactions with OpenAI, Google Gemini, and Meta Llama
- Architected and led the open-source initiative of [LLM-Gateway](#) - a portal for companies to securely interact with LLM providers

#### Data Platform

- Supported 300+ business-critical pipelines processing \$20M+ daily by owning the core data engineering platform
- Enhanced platform reliability and observability by migrating services to Kubernetes, integrating monitoring with Datadog and error tracking with Sentry
- Reduced 90% of iteration time on internal Airflow cluster by leveraging self-served secret backend on AWS SSM
- Increased stakeholder productivity by overhauling the deployment process for a multi-tenant Airflow cluster

### Wealthsimple, Software Developer Intern

Feb 2023 - Aug 2023

#### Data Platform

- Built a Data Catalog with React, FastAPI, OpenAI and Langchain for static parsing of metadata to generate quick insights and answer human questions about the internal Redshift Data Warehouse

### DRW Trading Group, Software Developer Intern

May 2022 - Aug 2022

#### Event-driven Trading Desk

- Built a distributed web-discovery system (1M+ sites) using Scrapy, Flask, and PostgreSQL to support algorithmic low-latency trading insights
- Improved API response time by 90% via Redis caching and multithreading

### Morgan Stanley, Software Developer Intern

Jan 2022 - Apr 2022

#### Technology and Operation Risk

- Built firm-wide data warehouse features using Java and Spring Boot

### DRW Trading Group, Software Developer Intern

May 2021 - Aug 2021

#### Event-driven Trading Desk

- Engineered pipelines to notify algorithmic trading events and monitor key websites
- Designed a Computer Vision app to evaluate thousands of web snapshots with Docker, Selenium, OpenCV, Scikit-image, and Tesseract OCR

### Ericsson, Software Developer Intern

Sept 2020 - Apr 2021

#### Open-source [Eclipse Theia](#)

- Drove open-source development of [Eclipse Theia \(18k+ stars on GitHub\)](#) - a Cloud and Desktop IDE framework
- Authored and developed [@theia/external-terminal](#) (1000+ weekly downloads) a Theia package that enables the interactions with native terminals, using TypeScript, Node.js, React.js, and Electron

## EDUCATION

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### Concordia University

Sept 2017 - Dec 2022

Bachelor of Science, Computer Science CO-OP