

Nathan Feng

437-388-1435 | nthnfng@gmail.com | [linkedin.com/in/nthnfng](https://www.linkedin.com/in/nthnfng) | github.com/nthnfng

EDUCATION

University of Western Ontario

BSc, Honours Specialization in Computer Science

Sept 2024 – Apr 2028

London, ON

- **GPA: 3.8/4.0**, Western Scholarship of Distinction (\$3500) Dean's Honour List (2024, 2025)

EXPERIENCE

Software Developer

Data Loft

Jun 2026 – Sep 2026

Toronto, ON

- Developed an internal AI agent used by engineers across multiple teams that automates requirements gathering, building, and testing for dbt and Snowflake development
- Built a new feature for the company's identity resolution platform, used internally and by external developers, to filter and target customer groups more precisely and reduce manual, one-off work
- Consolidated duplicated logic across a data pipeline into a single centralized process, improving the accuracy and reliability of data used in downstream reporting

Software Developer

Canadian Red Cross - Tech for Social Impact

Nov 2025 – Apr 2026

London, ON

- Collaborated with a team to develop a centralized SharePoint ecosystem for **100+ staff**
- Engineered automated content governance workflows and a custom metadata tagging framework to ensure long-term data integrity and resource searchability

Founder

Bounce Volleyball Club

Nov 2025 – Present

London, ON

- Founded and scaled an independent volleyball organization, growing active members from zero to **100+** athletes in less than 2 months to overcome a shortage of campus athletic resources
- Generated **100,000+** digital impressions to drive completely sold-out event registrations by producing original promotional content and executing an independent social media strategy

PROJECTS

QBlock: Quishing Detection System | Python, XGBoost, PyTorch, Hugging Face

Apr 2026

- Co-developed an ML system with Western Cyber Society to combat QR-code phishing (Quishing) by preemptively classifying malicious websites, presented at the **Canadian Tech Summit 2026**
- Engineered a hybrid detection pipeline combining **XGBoost** for structural URL features with a **BERT-based model** for semantic text meaning, achieving **87% accuracy** on **10,000+** websites

Driver Monitoring System | Python, MediaPipe, OpenCV

Mar 2026

- Co-developed a real-time drowsiness and distraction detection system with Western AI for **CUCAI 2026**, engineering modular Python classes for **facial tracking** using MediaPipe and OpenCV

NBA Match Predictor | Python, Scrapy, pandas, NumPy, scikit-learn

Sep 2025

- Built a web scraper to collect data from **6,000+** NBA games, and built a pipeline to expand the dataset from **40 to 200+** features using weighted averages and **50+ rolling matchup metrics**
- Developed an XGBoost classifier using **time-series cross-validation** to predict outcomes, identifying the **top 20 predictive features** for game results

Posture Detector | Python, PyTorch, OpenCV, Ultralytics

May 2024

- Engineered a real-time posture tracking system, achieving **30+ FPS** across **17 body landmarks** and **reducing false-positive alerts by 40%** through a statistical outlier-rejection calibration pipeline

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript, TypeScript, HTML, Bash

Libraries & Frameworks: pandas, NumPy, OpenCV, MediaPipe, Flask, FastAPI, React

Tools & Technologies: Snowflake, dbt, Git, Linux, Power Automate