

Amirhossein Nafissi

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EDUCATION

University of Waterloo

Bachelor of Software Engineering (BSE)

Waterloo, ON

Sep. 2025 – Jan. 2030

University of Guelph

Bachelor of Computing, Software Engineering (Transferred); GPA: 4.0/4.0

Guelph, ON

Sep. 2024 – April 2025

TECHNICAL SKILLS

Languages: Python, C, C++, Java

Libraries: Pandas, Matplotlib, NumPy

Developer Tools: Git, Bash, VS Code, Agile/Scrum

EXPERIENCE

Machine Learning Intern

Jul. 2023 – Oct. 2023

University of Waterloo

Waterloo, ON

- Worked with a research group to collect a sensitive security dataset for training a robust machine learning model.
- Gained training and hands-on experience related to creating simple machine-learning models with various Python libraries to be used in personal projects.

Founding Member & Software Developer

Nov. 2025 – Present

WatQ

Waterloo, ON

- Architected a centralized Notion database using agile practices that became the single source of truth for Waterloo's inaugural undergraduate quantum design team (15+ members), reducing information fragmentation and accelerating on boarding.
- Collaborating with the software team to simulate Hawking radiation and black hole thermodynamics using Qiskit and Python.

Online AI Tutor

Sep. 2023 – Present

Self Employed

Waterloo, ON

- Developed a comprehensive beginner-friendly curriculum covering neural networks, Python fundamentals, and ethical AI for students aged 10-15.
- Delivered interactive workshops to students, focusing on transferable skills in Python, generative AI, and video editing.

Graphic Designer

Apr. 2021 – Nov. 2022

MAGO Charity

Waterloo, ON

- Produced high-impact visual assets and social media content that directly contributed to raising \$700 for humanitarian aid.

PROJECTS

EvoSense | *scikit-learn, pandas, MediaPipe, NumPy, OpenCV, pickle, Python*

- Developed a computer vision system to help visually impaired users interpret facial expressions and social cues in real-time.
- Utilized MediaPipe and OpenCV pipelines to extract facial/pose coordinates, then trained a scikit-learn Logistic Regression classifier on coordinate samples for real-time emotion/gesture detection.

EchoSense | *python, raspberry-pi*

- Engineered a Raspberry Pi-enhanced white cane for the visually impaired to detect multi-level obstacles, eliminating a blind spot of traditional mobility aids.
- Integrated dual ultrasonic sensors via Python on Raspberry Pi to trigger real-time audio collision alerts to users.

HONORS & AWARDS

University of Waterloo: Excellent Academic Standing

Schulich Leader Scholarship: High School Nominee

CTMC Team Mathematics Contest: High School Champion and 11th in the region (2023)

Goose Hacks: Ranked 4th best project out of 190+ participants