

Anthony Pham

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Education

York University

Honours Bachelor in Computer Science

Relevant Coursework: Software Engineering, Software Testing, Data Structures, Algorithms, Computer Networks.

September 2022 - April 2026

3.1 GPA

Projects

Touchless | [TechTO Hackathon](#) | [Live Demo](#)

Python, OpenCV, MediaPipe, pyautogui, ElevenLabs API, Google STT

- Developed a **gesture- and voice-controlled presentation tool** that allows users to navigate Google Slides, PowerPoint, and embedded videos completely hands-free using **OpenCV and MediaPipe** for real-time gesture detection.
- Integrated **ElevenLabs real-time speech-to-text** for natural voice commands and automatic note-taking, enhancing accessibility for users with physical limitations.
- Implemented a **keyboard emulation system** with pyautogui to send native control signals (arrow keys, space, esc, media keys) across any browser tab.
- Built cross-platform support for macOS and Windows with minimal latency, improving interaction speed and inclusivity for live presenters.

PowerRange | [Frontend Demo](#)

Spring Boot, Supabase, Next.js, Docker, AWS EC2

- Engineered a **cloud-native** vehicle e-commerce platform with **microservices** (Spring Boot, REST APIs, React, Docker, NginX, AWS EC2, Cloudflare) in a team of four.
- Implemented **HTTP cookie-based JWT authentication** for users and admins, which ensured secure role-based access and data integrity.
- Integrated **Stripe Checkout** to process payments, manage metadata routing, and automate order creation.
- Built a **React admin dashboard** reporting services to visualize revenue, orders, and user insights.
- Utilized **Supabase and JDBC for storage**, enabled **Docker logging**, and containerized each service for scalable, maintainable deployments.
- Reduced **API latency by 20%** by optimizing queries with Supabase and caching layers as it scaled to 50+ test users.

Trace | [GitHub](#)

Python, Pandas, Tensorflow, YFinance, Plotly

- Developed a Python tool with **Tensorflow and Yahoo Finance** to predict the next-day stock price percentage using an **LSTM deep learning model** with MAE evaluation.
- Applied **technical indicators** (SMA, RSI, VWAP, Fibonacci retracements) and financial patterns (Golden Cross) to improve input features, obtaining a **directional accuracy of 65% and Mean Absolute Error (MAE) of 0.2%**.
- Visualized a **comparison of real and predicted results** using **Plotly** and implemented a model saving/loading to minimize API calls.

Technical Skills

Languages: Python, Java, Javascript, Typescript, C, C++, SQL, HTML5, CSS3

Frameworks/Libraries: React, Next.js, Node.js, Express.js, Axios, Flask, Spring Boot, JUnit, Tailwind CSS

Tools/Platforms: Git, Docker, Postman, Bash, MySQL, SQLite, PostgreSQL, AWS EC2, Cloudflare, Redis

Experience

Costco Wholesale

Merchandise

May 2024 - Present

East Gwillimbury, ON

- Coordinated tasks and communicated with a **4-person team** to manage a section, ensuring efficient shift operations.
- Increased product visibility by **reorganizing high-demand items**, contributing to an estimated **10% boost in daily department sales volume**.
- Maintained a clean environment to improve member experience and drive member satisfaction.

YorkU Taekwondo Club

Deputy External

September 2023 - September 2024

North York, ON

- Assisted in **planning events** and creating a strong connection to the community among club members.
- Attended weekly high-intensity training sessions, improving cardio and sparring skills while promoting team spirit.