

Ethan Yang

 ethanyang.dev

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Education

University of Toronto

Expected May 2030

Bachelor of Applied Science, Computer Engineering (Professional Experience Year Co-op)

Toronto, ON

- Relevant Coursework: Data Structures and Algorithms; Computer Organization; Linear Algebra; Probability and Statistics; Software Design; Digital Systems

University of Prince Edward Island

June 2024

Shad Canada Program - STEAM and Entrepreneurship

Charlottetown, PE

- Collaborated in multidisciplinary teams to develop solutions to real-world problems using design thinking, entrepreneurship, and STEM methodologies.
- Completed lectures and hands-on projects focused on leadership, sustainability, and technological innovation.

Technical Skills

Programming Languages: C++, Python, Java, TypeScript, JavaScript, HTML, CSS

Frameworks and Libraries: React, Tailwind CSS, Node.js, Flask, OpenCV, NumPy, Matplotlib

Tools and Platforms: Git, GitHub, Linux, Visual Studio Code, Visual Studio, Google Cloud Platform

Projects

QuantiFi (Python)

November 2025

- Placed 3rd at UofT UTEFA QuantiFi 2025 by developing an algorithmic trading strategy using statistical analysis, backtesting, and risk management techniques.
- Evaluated strategy performance on historical market data to optimize risk-adjusted returns.

Stop! Don't Go On! (React, TypeScript, Python, Flask, OpenCV)

October 2025

- Finalist at GoOnHacks 2025; built a computer vision application to detect user behavior patterns and trigger real-time interventions.
- Integrated optional Arduino-based hardware for servo-controlled camera tracking and physical feedback.

binder. (React, TypeScript, Tailwind CSS, Python, Gemini API)

October 2025

- Developed a swipe-based marketplace browser for Kijiji with real-time listing updates using React.
- Implemented a Python scraper and AI-driven price evaluation pipeline using the Gemini API.

Stock Price Simulation (C++, Python, NumPy, Matplotlib)

September 2025

- Implemented Monte Carlo simulations using Geometric Brownian Motion to model and forecast stock price trajectories.

Awards

Faculty of Applied Science and Engineering Admission Scholarship, University of Toronto

2025

DECA International Career Development Conference (ICDC) Qualifier, DECA

2025

Canadian Senior Mathematics Contest (CSMC) – Distinction, University of Waterloo

2024

Volleyball Canada National Championships – Second Place, Toronto Thunderbolts Volleyball Club

2022

Pascal Mathematics Contest – Honour Roll, University of Waterloo

2022

Experience

Barista

July 2025 – August 2025

Cotti Coffee

Markham, ON

- Delivered consistent customer service and accurate order fulfillment in a fast-paced environment.
- Worked collaboratively with team members to support daily operations and maintain service standards.

Volleyball Coach

September 2021 – August 2025

Toronto Thunderbolts Volleyball Club

Markham, ON

- Mentored youth athletes, emphasizing teamwork, discipline, and skill development.
- Assisted with training sessions and game-day organization alongside coaching staff.