

Ethan Yang

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EDUCATION

University of Toronto

Bachelor of Applied Science in Electrical & Computer Engineering + PEY Co-op

Toronto, ON

Sep. 2025 – Expected May 2030

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, TypeScript, HTML/CSS, MATLAB

Frameworks: React, Node.js, Flask, ROS

Developer Tools: Git, Linux, VS Code, Visual Studio, PyCharm, Eclipse, Arduino

Libraries: NumPy, Matplotlib, OpenCV

PROJECTS

QuantiFi (3rd Place, UTEFA QuantiFi Competition 2025) | Python

Nov. 2025

- Designed and implemented a dual moving average crossover trading strategy in Python
- Backtested the strategy on market datasets and evaluated performance using returns and Sharpe ratio
- Optimized strategy parameters via grid search to improve return stability

Stop! Don't Go On (Finalist, GoOnHacks 2025) | React, Python, Flask, NumPy, OpenCV, Arduino

Nov. 2025

- Built a computer vision application to detect prolonged inactivity and attention loss to support productivity
- Implemented real-time face tracking using OpenCV and triggered hardware-based alerts via Arduino
- Designed and served REST APIs using Flask to coordinate frontend and backend communication

binder. | React, TypeScript, Node.js

Oct. 2025

- Built a swipe-style marketplace application for browsing secondhand listings with price recommendation features
- Implemented automated scraping of Kijiji listings and structured listing data for analysis
- Developed price analysis and negotiation guidance features based on historical listing data
- Designed responsive, interactive user interfaces using React and TypeScript

Stock Price Simulation & Risk Analysis | C++, Python, Matplotlib

Oct. 2025

- Implemented a Monte Carlo simulation in C++ to model stock price dynamics using Geometric Brownian Motion
- Simulated large numbers of price paths and analyzed resulting distributions for statistical properties
- Visualized simulation outcomes and evaluated model behavior using Matplotlib

EXPERIENCE

Software Developer

Sep. 2025 – Present

Toronto, ON

Robotics for Space Exploration

- Developed robotics software in Python and C++ for student robotics competitions
- Wrote unit tests for ROS-based robotics components on Linux using simulation tools
- Collaborated with cross-functional teams to deliver mission-driven robotics software
- Applied Git, debugging, and documentation best practices throughout development

Volleyball Coach

Sep. 2021 – Present

Markham, ON

Toronto Thunderbolts Volleyball Club

- Led structured training sessions for multiple youth teams, managing schedules and performance feedback
- Mentored athletes and coordinated with coaching staff to improve team outcomes