

# Ethan Yang

647-336-9608 | [ethn.yang@mail.utoronto.ca](mailto:ethn.yang@mail.utoronto.ca) | [linkedin.com/in/ey6](https://linkedin.com/in/ey6) | [github.com/e-yang6](https://github.com/e-yang6) | [ethanyang.dev](https://ethanyang.dev)

## 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 youth teams and managed practice schedules
- Provided feedback and mentorship to support athlete development and performance
- Coordinated with coaching staff to plan practices, drills, and competition strategies