

Ethan Yang

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EDUCATION

- **University of Toronto** Toronto, ON
Sept. 2025 – Present
 - Bachelor of Applied Science in Computer Engineering (Expected 2030)
- **SHAD Program – University of Prince Edward Island** Charlottetown, PEI
July 2024
 - Selective national enrichment program in STEM, innovation, entrepreneurship, and leadership

EXPERIENCE

- **Cotti Coffee** Toronto, ON
July 2025 – Aug. 2025
 - Barista
 - Delivered high-quality service in a fast-paced environment while managing multiple simultaneous orders.
 - Improved workflow efficiency by streamlining preparation sequences and minimizing downtime.
- **Toronto Thunderbolts Volleyball Club** Toronto, ON
Sept. 2024 – Aug. 2025
 - Volleyball Coach
 - Planned and led structured training sessions, mentoring athletes aged 7–14 to improve performance.
 - Developed game strategies and promoted communication, teamwork, and discipline.

PROJECTS

- **binder.**: Built a swipe-based marketplace for Kijiji: React/TypeScript UI with real-time updates, watchlist, and a Python scraper that fetches and de-duplicates listings.
- **Stock Price Simulation and Risk Analysis**: Developed a C++/Python model using geometric Brownian motion and Monte Carlo simulations (10k+ paths) to analyze price dynamics and risk; visualized outcomes with Matplotlib.
- **Bond Pricer**: Implemented a C++ fixed-income pricing engine with support for coupons, YTM, duration, and convexity; validated results using numerical methods and test cases.

ACTIVITIES & LEADERSHIP

- **Robotics for Space Exploration (RSX), University of Toronto** Toronto, ON
Sept. 2025 – Present
 - Software Developer
 - Developing robotic control software using Python, C++, and ROS for autonomous space systems.
- **Music Council – Milliken Mills High School** Markham, ON
June 2024 – June 2025
 - President
 - Led a 25-member executive team to organize concerts and school-wide events, raising over \$10k for the school's music department.
- **DECA – Milliken Mills High School** Markham, ON
June 2024 – June 2025
 - Trainer
 - Coached members in business case analysis and presentation, contributing to provincial qualifications.

SKILLS & ADDITIONAL INFORMATION

- **Programming Languages**: C++, Python, Java, TypeScript, JavaScript, HTML, CSS
- **Libraries & Tools**: React, Next.js, Tailwind CSS, Vite, Node.js, NumPy, Matplotlib, Git, ROS
- **Relevant Coursework (planned/ongoing)**: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Probability & Statistics, Digital Systems, Object-Oriented Programming
- **Honours**: Canadian Senior Mathematics Contest & Canadian Computing Contest Distinction (Top 25% in Canada), Waterloo Pascal Math Contest Honour Roll & Medalist (Top 115 in Canada), DECA ICDC Qualifier, National Volleyball Silver Medalist (15U), UofT Engineering Entrance Scholarship, IB Diploma
- **Languages**: English (Fluent), Mandarin (Full Professional Fluency)
- **Interests**: Algorithmic trading, financial markets, global macroeconomics, competitive volleyball, music production, robotics, behavioral strategy