Ethan Yang

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Seeking a software/quantitative engineering internship to apply strong C++/Python, mathematical modelling, and problem-solving skills to high-performance, data-driven systems.

EDUCATION

University of Toronto — Toronto, ON
Bachelor of Applied Science in Computer Engineering (Expected 2030) — *Sept. 2025 – Present*

SHAD Program – University of Prince Edward Island — Charlottetown, PEI
Selective national enrichment program in STEM, innovation, entrepreneurship, and leadership — *July 2024*

EXPERIENCE

Cotti Coffee — Toronto, ON
Barista — *July 2025 – Aug. 2025*
- 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
Volleyball Coach — *Sept. 2024 – Aug. 2025*
- Planned and led structured training sessions, mentoring athletes aged 7–14 to improve performance.
- Developed game strategies and promoted communication, teamwork, and discipline.

PROJECTS

- **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
Software Developer — *Sept. 2025 – Present*
- Developing robotic control software using Python, C++, and ROS for autonomous space systems.

Music Council – Milliken Mills High School — Markham, ON
President — *June 2024 – June 2025*
- 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
Trainer — *June 2024 – June 2025*
- Coached members in business case analysis and presentation, contributing to provincial qualifications.

SKILLS & ADDITIONAL INFORMATION

- **Programming Languages**: C++, Python, Java, JavaScript, HTML, CSS
- **Libraries & Tools**: 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