Qingyuan (Elaine) Li

Waterloo, ON | e255li@uwaterloo.ca | (647) 936-1124 | Elaine-764.github.io | in elaine-li-236a3a1b5

Elaine-764

Skills

Technical skills: Python, HTML, CSS, Racket, Excel, PowerPoint, Word
Technologies: Git, YFinance, MatPlotLib, NumPy, NumpyFinance, SymPy, Tailwind, Jupyter Notebook, SageMath

Education

University of Waterloo, Candidate of Bachelor of Computing and Financial Management   *Sept 2024 – April 2029*
Cheriton School of Computer Science & School of Accounting and Finance

- GPA: 3.92/4.0
- **Relevant Coursework:** Functional Programming, Financial Markets, Business

Experience

Ontario Competitive Mathematics Committee, Chief Financial Officer & Co-Founder   *January 2023 – August 2024*

- Created sponsorship packages and cold-emailed 40+ companies to attracted $5,000+ in cash and in-kind sponsorships
- Hosted 2 annual contests with 500+ participants from 14 schools in Canada and internationally
- Manage company assets, cash-flow, and income to fund cash prizes for top 10-20 participants and company events

International Baccalaureate (IB) Tutor   *July 2024 – Current*

- Leveraged a perfect 45/45 IB score to provide weekly one-on-one tutoring sessions for high school IB students in Higher Level Math and Theory of Knowledge.
- Designed weekly lesson materials, created and graded assignments, and collaborated with students and parents to enhance understanding and performance.

OCMC Contest Math (AMC) Summer Camp, Co-organizer & Teaching Assistant   *August 2023*

- Created marketing content and networked to attract 20 students from grades 6-10 to participate in a one-week, virtual math camp to prepare for the AMC 8/10 contests. Generated $4000 in revenue.

Projects

Robo Advising   github.com/gsaujla/Robo-Advising ↗

- A 3-person team project that uses past stock data to create, from a list of given stock tickers, a portfolio of 12-24 stocks that matches the market index (S&P 500 and TSX 50) through calculating Beta values and adjusting stock weightings to minimizing deviation from market indices. Test portfolio 1% tracking error within 1 week of testing.
- Tools Used: Python, Pandas, NumPy, YFinance, Matplotlib

Cryptic - Cryptography   github.com/Elaine-764/Cryptic ↗

- Encryption, decryption, and key generation algorithms for RSA, ElGamal, Elliptic Curve Cryptography, Caesar, Substitution, Affine, Vigenère
- Tools Used: Python, SymPy, Cryptography

Additional Info

Other Activities: Computer Science Club (External Affairs Coordinator and Interviewer)
Interests: Cryptography, Philosophy, Finance and Investing