TOM PAN

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Education

University of Waterloo   **September 2021 – Present**
Candidate for Bachelor of Computing and Financial Management   *Waterloo, Ontario*
Computer Science and Finance Double Major (1B Term)

Summary of Qualifications

Languages: Python, C, SQL, HTML, CSS, JavaScript, R, Racket
Developer Tools: Git, GitHub, VS Code, Excel, Word, PowerPoint, MS Office
Technologies/Frameworks: Pandas, yfinance, Numpy, Scikit-learn, React.js, Matplotlib, SQLite

Experience

Red Robin Financial in   **January 2022 – Present**
Founder and CEO   *Waterloo, Ontario*
- Designed and built a stock trading platform to provide clients with an opportunity to gain practical experience in the stock market through managing a virtual portfolio
- Engineered various financial analytics tools to advise investors in portfolio asset management and investment decisions
- Developed innovative financial algorithms using machine learning, allowing investors to interactively explore the benefits of emerging technologies

Projects

AgileTrade | *Python, yfinance, SQLite, Streamlit* ⚆ ⊕   **January 2022 – Present**
- Built a virtual trading platform for students to learn about the stock trading process in a fun and engaging manner
- Implemented user security and authentication measures to improve user privacy protection
- Analyzed, managed, and overhauled databases of user data to enhance current data storage methodologies
- Facilitated the growth of the platform by organizing and promoting students from local high schools to participate in our stock trading competitions

Aspen Algorithm | *Python, Numpy, Pandas, Matplotlib, yfinance* ⚆   **December 2021 – Present**
- Planned, designed, and built a quantitative portfolio allocation algorithm to automate portfolio management for financially ambitious clients
- Implemented expected return, standard deviation, and covariance analysis to find individual stocks with the highest growth potential
- Outperformed the S&P 500 by around **50%** in a 4-week testing period

Stock Prophet | *Python, Numpy, Pandas, Scikit-learn, Matplotlib, yfinance, Threading* ⚆ ⊕   **November 2021 – Present**
- Created a financial advisory tool to complement investment decisions by estimating a relative level of confidence for any given stock
- Applied support vector machine to train, predict, and reiterate on generated insights
- Achieved an accuracy level of approximately **95%** on a list of over 1000 tickers

SARS Reality | *R, HTML* ⚆ ⊕   **May 2021 – June 2021**
- Founded and engineered a COVID-19 information sharing platform to educate the public about the ongoing details surrounding the pandemic
- Conducted quantitative analysis on pandemic-related data such as the number of cases and vaccinations
- Promoted public awareness about COVID-19 prevention through planning, organizing, and delivering a series of instructional seminars to over 500 individuals

Awards

- Dean's Honour Roll
- David Johnston International Student Scholarship
- President's Scholarship of Distinction
- Ontario Scholar

Leadership / Extracurricular

SITS Tutoring Centre   **October 2019 – June 2021**
President and Co-Founder   *Oakville, Ontario*
- Conceptualized, designed, and produced media content intended for use in marketing campaigns
- Hired, trained, and supervised a team of **25** mentors, servicing a client base of over **200** mentees
- Accomplished an average GPA increase of over **10%** across all clients