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 (2A Term)
GPA: 4.0

Summary of Qualifications

Languages: Python, PHP, JavaScript, SQL, HTML, CSS, C/C++, R
Developer Tools: Git, GitHub, Linux/Unix OS, VS Code, Excel, MS Office
Technologies/Frameworks: Pandas, Numpy, jQuery, MySQLi, phpMyAdmin, Scikit-learn, Matplotlib, SQLite, yfinance

Experiences

Definity Financial Corporation **May 2022 − August 2022**
Analyst, Strategic Initiatives, Corporate Strategy *Waterloo, Ontario*
- Enhanced corporation's organization and tracking ability during the M&A process by designing and creating 9 **financial management tools** through Excel
- Accelerated the corporation's M&A process by designing and developing 2 sets of checklists that gather information from **all departments' leaders**
- Presented to senior executives about the results and insights generated from gathered data with the use of **data wrangling, analytics, and visualization** on Excel and PowerPoint

Projects

Restaurant QR Code Ordering System | *JavaScript, PHP, SQL, MySQLi* 🌐 **Aug 2022 − Present**
- Designed and built a **web application** that manages customers' orders for a local restaurant with 200 daily customers
- Utilized **jQuery and MySQLi** to make a completely **secured** frontend & backend connection
- Implemented user/database **security and authentication measures** to improve user and data privacy protections

AgileTrade | *Python, yfinance, SQLite, Streamlit* ⭕ 🌐 **January 2022 − March 2022**
- Built a **virtual trading platform** for students to learn about the stock trading process in a fun and engaging manner
- Analyzed SQLite 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 − March 2022**
- 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

SARS Reality | *R, HTML* ⭕ 🌐 **May 2021 − June 2021**
- Built 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

Licenses & Certifications

- IBM Data Science Specialization
- Kane's Data Science Bootcamp Certificate