Marcus Tam

✉ mtam99@student.ubc.ca | **in** LinkedIn | ⌨ GitHub

EDUCATION

University of British Columbia, Kelowna, BC
Bachelor of Science: Majoring in Computer Science
2017 - 2021

Deputy Vice-Chancellor Scholarship (2019-2020)

SOFTWARE SKILLS

Languages Python / iPython, Java, JavaScript, SQL
Notable University Courses
Computer Vision
Human Computer Interaction
Web Programming
Parallel Computing
Software PostgreSQL, AWS, Docker, Git, Unix, Jira

WORK EXPERIENCE

7 Cheetahs Trading, Kelowna, BC   Oct 2021 - Oct 2022
Quantitative Researcher / Software Engineer
- Created back-testing analysis Jupyter notebooks that were integral for thesis development. Contained over 200 cells of unique figures and plots describing different patterns in the market. Updated and repaired notebooks as necessary.
- Developed theses based on data from backtest reports, presented the data weekly to the team, and implemented feedback received from team.
- Research experience with financial time series data sets using NumPy and Pandas libraries and transformed data into technical indicators for the rest of the team to reference.
- Managed the status of over 20 backtests at a time and reported summaries to each relevant team member; organized weekly hour-long meetings with CTO to discuss server and backtest status.
- Worked closely with executives to give them high-level overviews. Assisted the CEO with regular tasks such as market data analysis and figure and plot interpretation.
- Designed and coded applications in an Agile environment utilizing a scrum approach. Participated in weekly sprint planning meetings and became the product owner of the backtest board.

ResearchTube, Kelowna, BC   May 2020 - August 2020
Software Developer (Technical Lead)
- Oversaw documentation for the project. Final deliverable handed off to the client was 102 pages.
- Provided a cost-benefit analysis between multiple online payment platforms. Implemented Stripe payment as the official service due to their customer support services, ease of implementation for programmers, and least amount of commissions charged.
- Drafted the site design from scratch. Provided the clients with numerous variations, as well as adapting to the customers request on the fly. Created a total of 10 unique pages for the client.
- Reviewed team members' codes. Closed over 50 pull requests, while providing helpful comments on each pull request. Wrote 40,000 lines and deleted around 7,000 lines of code.
- Organized daily standup meetings with the team, and weekly meetings with the clients and professor to update parties on predefined objectives.

Def Hacks Virtual 2020 Hackathon, Toronto, ON   June 2020
Programmer (Team member)
- Worked in a team of three for an online hackathon, while all members worked remotely.
- Built a Tinder clone to match hackers with each other based on each hacker's interests and experiences.

PERSONAL PROJECTS

- **WealthSimple Auto Trader**: Wrote a web scraping tool in Python that automatically executes trades on WealthSimple (Trading Platform). It executes buys and sells based on a variety of factors.
- **Stock Prediction using Sentiment Analysis**: Created a machine learning model using a handcrafted dataset, the model could predict the closing value of a portfolio of Fortune 500 with about 81% accuracy.