Abel Kwong

Aspiring data scientist/software engineer focused on the intersection of healthcare, finance, and tech

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Work Experience

Equity Derivatives Trader / Market Analyst
Athol Capital Group | February 2020 - Present

- Utilize financial equities and derivatives such as equity futures, equity options and derivative-based ETFs for trade executions
- Perform sentiment analysis of the market environment using natural language model transformers (FINBERT)
- Analyze various financial sectors using a combination of fundamental and technical analysis (ATR/DTR, order flow, market breadth, and volatility)
- Design algorithmic trading systems using Python language and Trading View platform
- Coordinate with team to exchange research ideas and opportunities

Pharmacy Intern
Walgreens Boots Alliance | June 2018 - May 2020

- Managed high volume of patient prescriptions using INTERCOM Plus relational database system and MySQL
- Assist lead pharmacist with verifying accuracy of prescription orders and ensuring legal and regulatory requirements
- Compound medications involving mixing, preparing and packaging customized medication
- Met and improve weekly metrics with staff productivity and inventory turnover

Undergraduate Research Assistant
University of Maryland | May 2016 - August 2017

- Contributed to research in developmental genetics of Drosophila melanogaster, with a focus on intracellular communication via cytonemes, working collaboratively with graduate research assistants and the PI.
- Conducted various molecular laboratory techniques, including DNA/RNA extraction, PCR, PAGE, and Western blot, demonstrating proficiency in laboratory procedures.
- Managed lab stock inventory, and facilitated gene sequencing orders to support ongoing research activities.
- Applied R and MATLAB technologies to carry out quantitative studies, contributing to research outputs.

Entrepreneurial Toolbox

- E-commerce (retail apparel)
- Twitter-based subscription service
- Financial market research analytics
- Digital marketing
- Google analytics

Skills

Programming Languages
Python, Java, SQL, R, HTML, CSS, C, Scala

Libraries & Frameworks
NumPy, Pandas, Scikit-Learn, Tensorflow, Pytorch, Keras, Apache Spark, Hadoop

Tools & Platforms
Git, Github, Bash, Linux, Jupyter, Docker, AWS, Postman, Tableau, PowerBI

Recent Projects

Deep Learning Imaging
Implement ResNet50-based deep learning model for classifying SARS-CoV2 CT scans with 96.8% accuracy

FinBert Sentiment Analysis
Predict financial data and news headlines using a pre-trained BERT natural language model with high accuracy

Education

University of Maryland
B.S. Biochemistry
2016-2019

University of Maryland - School of Pharmacy
Doctor of Pharmacy/MBA candidate
2019-2020

Interests

Financial markets, sports analytics, alternative investments, travelling, hiking, creating music