Osama Shahid

shahido@seas.upenn.edu | Brampton, ON
https://github.com/smosma252 | https://linkedin.com/in/osama-shahid252

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science — Expected: Dec 2022
Master's Degree, Computer Science (MCIT)

- Relevant Coursework: Probability & Discrete Math, Data Structures & Software Design, Algorithms & Computation, System Design, Artificial Intelligence, Databases & Information Systems

McMaster University, Department of Chemistry and Chemical Biology — Graduated: May 2019
Honors Bachelor of Science, Chemistry

- McMaster Honors level 2 Scholarship

PROFESSIONAL EXPERIENCE

Select Vantage, Inc. — Toronto, ON
Software Developer — Jan 2020 - June 2020

- Utilized python to process daily time series datasets and implement logistic regression models for closing price predictions on equities leading to an improvement in pricing accuracy
- Utilized proprietary REST API to model live trading statistics of intraday/closing prices for equities
- Wrangled 2TB of trading data stored in SQL database to help remodel and visualize 16 previously inaccessible datasets
- Cleaned previous data and created dashboard using Grafana to help visualize trading statistics

Select Vantage, Inc — Toronto, ON
Equity Trader/ Algorithmic Developer Intern — June 2019 – Dec 2019

- Utilized python for data processing/data analysis and implemented scripts to reduce time sorting data.
- Improved systematic trading strategies for European equities by utilizing python libraries for data processing and visualization.

McMaster University, Moran-Mirabal Research Group — Hamilton, ON
Research Assistant — May 2017 - April 2019

- Utilized python for data processing/data analysis and implemented scripts to reduce time sorting data.
- Led team project regarding exploration of cholesterol embedded lipid systems in membranes studying lysis analytics
- Publications: Sokunthearath Saem, **Osama Shahid**, et.al., Scientific Reports Benchtop-fabricated lipid-based electrochemical sensing platform for the detection of membrane disrupting agents.URL: https://www.nature.com/articles/s41598-020-61561-7
- Conference Presentation: 47th Southern Ontario Undergraduate Chemistry Conference

SKILLS

- **Programming Languages:** Java, Python, JavaScript (ES6), HTML5, CSS3
- **Big Data:** MySQL, MongoDB, Mongoose, Numpy, Pandas, Matplotlib
- **Technologies/Framework:** React.js, Node.js, Express, REST APIs, Git, Linux, AWS

PERSONAL PROJECTS

E-Commerce Store Application
Languages/Technologies: React.js, Commerce.js, JavaScript, HTML, CSS

- Created fully fledged e-commerce store utilizing Stripe API for transactions
- Features like "add to cart", "checkout" and sending confirmation emails to user

Keeper Full-Stack Application
Languages/Technologies: React.js, Node.js, Express, JavaScript, HTML, CSS, MongoDB Atlas, Mongoose

- Created application like 'google keeps', to track users posted notes similar to a to-do list.
- Utilized mongodb to store notes and node.js to connect to database through mongoose.

Personal Blog Full-Stack Web Application
Languages/Technologies: JavaScript, jQuery, Node.js, Express.js, MongoDB,

- Utilized mongodB to store blogs posts using Node.js/Express for the backend
- Created simple user interface to accept blog posts and submit to backend server to store in database.