Joshua Sturm

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JoshuaSturm | JoshuaSturm

Education

School of Professional Studies, City University of New York
MS Data Science, GPA: 4.0

New York, NY
08/17-Present

Web scraping, Data cleaning/tidying, Text mining, Data visualization, Advanced statistical methods

Baruch College, City University of New York
BA Mathematics

New York, NY
01/14--07/17

Quantitative Introduction to Financial Instruments, Object Oriented Programming, Theory of Interest, Mathematical Analysis I, Combinatorics

Rockland Community College, State University of New York
AA Mathematics

Suffern, NY
12/12

Dean's List, Member of Honors Program

Programming and Computer Skills

- C++, Python, Flask, LaTeX, R, SQL, MongoDB
- Excel, Word, Microsoft Office Suite
- Github, Intuit Quickbooks, Docker, AWS EC2
- Data: Scraping/collecting, cleaning/tidying, mining, visualizing
- Regression modelling

Financial Modeling Skills

- Option pricing and hedging in the Black-Scholes framework
- Binomial tree pricing of exotic and path-dependent options
- Calculation of VaR
- Time series analysis

Work Experience

Sushi-A-La-Carte, Inc.
Manager

Wesley Hills, NY
11/11--01/14

- Oversaw all aspects of daily operation for all three locations, managing 10 employees
- Coordinated orders and deliveries, assigning them to a location based on proximity to customer
- Took stock of inventory nightly
- Handled all customer relations
- Conducted weekly payroll for all employees
- Accounts payable, accounts receivable
- Overhauled previous IT configuration by purchasing new workstations and printers; general IT needs
- Regularly researched and implemented new ideas and products
- Handled all catering functions simultaneously
- Maintained a strong social media presence

Hillsdale Holdings, Inc.
Accounts Payable/Receivable, IT

South River, NJ
05/06--08/09

- Managed company accounting responsibilities, and customer invoicing using Intuit Quickbooks Pro
- Maintained company network, and general IT needs
- Purchased and installed network hardware such as printers, routers, and workstations

Projects

Trader App

Online flask app allowing one to (pretend) trade stocks on the NASDAQ exchange. Blotter data was stored in a MongoDB database; trade history, U/RPL, WAP, stored in a pandas dataframe. Quotes were scraped in real-time, and checks were in place to ensure the user had sufficient funds/shares to buy/sell.

DATA 602 Final Project

Online flask app, with mass shooting data scraped from the web, and stored in a MongoDB database. Geographic map with data on each event, proportionally sized to the number of victims. Included a regression model in attempt to predict number of victims in an attack, based on several attributes.

Activities and Interests

Ice skating, hockey, music, fitness, sudoku, Rubik's cube, riddles and problem solving

Languages

English (fluent), Spanish (conversational), French (minimal)