Kalyan Maddineni

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Education

University of Massachusetts Amherst **Amherst, MA**

Cumulative GPA: 3.6 | Expected Graduation: May 2022

- Bachelor of Science, Major in Computer Science and Statistics
- Bachelor of Arts, Major in Economics

Relevant Coursework

- **CS 230 –** *Computer System Principles*
- **CS 311 –** *Introduction to Algorithms*
- **CS 453** – *Computer Networks*
- **CS 326 –** *Web Programming*
- **ECON 311** – *Money and Banking*
- **STAT 525** – *Regression Analysis*

Relevant Skills

Computer Languages
*Proficient***:** C, Java, SQL
Familiar: Python, C++, JavaScript
Learning: Bootstrap 4, OCaml

Systems/Environments
Windows, Unix, Linux

Applications/Software
Excel, Tableau, LaTeX

Relevant Experience

UMass Amherst Isenberg School of Management **Amherst, MA**

Financial Modeling / Research Intern, September 2020 – Present

- Designed and developed a website for real-time index tracking
- Developed a trading strategy that utilizes factors that impact profitability of a trade (eg. size of trade, risk management, etc) to run alongside a human in decision making as a computer assistant.

Fidelity Investments **Merrimack, NH**

Quantitative Development Intern, June 2020 – August 2020

- Worked under Asset Management in the Fixed Income Technology and Quantitative Development team
- Developed an operational monitoring tool using SQL and Tableau for bonds, securities, and index data
- Created a visualization tool for monitoring app usage, query calls, query/database degradation, and query variance
- Optimized a database via hashing and indexing

UMass ACM Blockchain Club **Amherst, MA**

Co-founder and Secretary, January 2020 – Present

- Organized club meetings and workshops
- Designed project roadmaps and semester goals

EventVestor **Princeton, NJ**

Research Intern, May 2019 – July 2019

- Researched competitors that utilized web crawling and data collection in finance
- Detailed intrinsic faults in competitor's products and models
- Created a stock prediction model in python using time series and stock price data for companies in the S&P 500

Projects

Black-Scholes Option Pricing Model

August 2020 – Present

- Option Pricing Calculator and Geometric Brownian Motion Simulator based on the Black-Scholes formula
- Can calculate implied volatility and Greeks
- Implemented in C++ and Python

Personal Website

July 2020 – Present

- Implemented using HTML5, CSS3, Bootstrap 4, JavaScript, and jQuery