

Kalyan Maddineni

SOFTWARE ENGINEER

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Education

University of Massachusetts Amherst

B.S. IN COMPUTER SCIENCE AND STATISTICS

- Cumulative GPA: 3.6 | Expected Graduation: December 2021

Amherst, MA

Sept 2018 - Present

Relevant Coursework

Computer Science	Data Structures, Algorithms, Web Programming, Computer Vision, Computer Networks, Databases
Mathematics	Discrete Math, Advanced Linear Algebra, Statistics I/II, Regression Analysis
Other	Game Theory, Econometrics

Relevant Skills

Languages	Python, Java, C/C++, JavaScript, HTML/CSS
Frameworks	NodeJS, ReactJS
Databases	SQL(PostgreSQL, MySQL), NoSQL(MongoDB), AWS
Other	NGinX, Docker

Work Experience

Fidelity Investments

SOFTWARE ENGINEERING INTERN

- Developed a password encryption tool for RESTful API Authentication
- Created and Validated a RESTful API to optimize grant file approvals

Merrimack, NH

May 2021 - August 2021

UMass Amherst Isenberg School of Management

FINANCIAL MODELING & RESEARCH INTERN

- 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

Amherst, MA

September 2020 - December 2020

Fidelity Investments

QUANTITATIVE DEVELOPMENT INTERN

- 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

Merrimack, NH

May 2020 - August 2020

EventVestor

RESEARCH INTERN

- Researched competitors that utilized web crawling and data collection for stock signal generation
- 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

Princeton, MA

May 2019 - July 2019

Projects

Panoramic Image Stitching

PYTHON

- Detects corners, Extracts features, and Matches features in each image
- Uses RANSAC to transform, scale, and stitch the two images together

April 2021 - May 2021

Black-Scholes Option Pricing Model

C/C++ & PYTHON

- Option Pricing Calculator and Geometric Brownian Motion Simulator based on the Black-Scholes formula
- Can calculate Implied Volatility (IV) and Greeks

August 2020 - December 2020