

# Kalyan Maddineni

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## EDUCATION

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### University of Massachusetts, Amherst

*Bachelor of Science in Computer Science*

Amherst, MA

August 2018 – December 2021

## EXPERIENCE

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### Fidelity Investments

*Software Engineer*

Boston, MA

January 2022 – Present

- Refactored the frontend, backend, and middleware of an internal website using atomic design methodology
- Developed a web portal where users can request access to applications relevant to their role, dynamically configure applications, and manage their application access during role changes
- Migrated and modernized mainframe applications to microservices hosted on AWS and Azure for Fidelity's Brokerage Technology

### Fidelity Investments

*Software Engineering Intern*

Merrimack, NH

May 2021 – August 2021

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

### University of Massachusetts, Amherst

*Frontend Engineering Intern*

Amherst, MA

September 2020 – December 2020

- Designed and developed a website for real-time index tracking
- Integrated 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

*Quantitative Development Intern*

Merrimack, NH

May 2020 – August 2020

- 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

### EventVestor

*Research Intern*

Princeton, NJ

May 2019 – August 2019

- 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

## PROJECTS

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### SubletMe | Python, Docker, MongoDB

September 2021 – December 2021

- SubletMe is a marketplace where college students can sublet their apart or find an apartment to sublet
- Uses microsevices and dockerizes each API
- Focuses on three scalability aspects: MongoDB Replication and Sharding, Redis Caching, and NGINX Load Balancing

### Panoramic Image Sticking | Python

April 2021 – May 2021

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

### Personal Website | JavaScript, HTML, CSS

September 2020 – April 2021

- Developed a personal website to showcase my skills, projects, and employment history

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, JavaScript, HTML/CSS, R

**Frameworks:** Angular, Node.js, JUnit, Flask, FastAPI, Spring/MyBatis

**Databases:** SQL(PostgreSQL, MySQL, Oracle), NoSQL(MongoDB)

**Developer Tools:** Git, Containerization(Docker, Kubernetes), CI/CD(Jenkins), Terraform