

# Roshan Praveen Shetty

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## EDUCATION

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### University of Massachusetts, Amherst

Amherst, MA

Master of Science in Computer Science; GPA: 3.7/4.0

Graduation Date: May 2023

### University of Massachusetts, Amherst

Amherst, MA

Bachelor of Science in Computer Science; GPA: 3.7/4.0

Graduation Date: Dec 2022

## WORK EXPERIENCE

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### U-Tutors

Amherst, MA

Lead Full Stack Developer

Jan 2023 - Present

- Designing and implementing a student-to-student tutoring platform, featuring an intuitive interface and integrated scheduling and payment systems.
- Collaborating with a cross-functional team to enhance platform security, improve user experience, and drive user engagement through marketing and outreach initiatives.

### GRUBRR

Boca Raton, FL

Full Stack Developer Intern

Jun 2022 - Dec 2022

- Developed a cutting-edge Menu Builder Tool architecture, featuring dynamic data nesting up to 6 layers deep and integrating over 10 innovative features, including an Excel interface with custom data formatting.
- Transformed key components of the codebase to a fully reactive Svelte programming model, ensuring data immutability and consistency resulting in a 20% increased system performance.

### Tata Consultancy Services

Amherst, MA

Business Analyst Intern

Jun 2021 - Aug 2021

- Conducted extensive Exploratory Data Analysis of time series data using Python to identify the best machine learning algorithms, including decomposing of level, trend, seasonality, and noise.
- Implemented Random Forest Algorithm in machine learning models with an average accuracy rate of 93%.

### University of Massachusetts Amherst SBS

Amherst, MA

Full Stack Developer

Jun 2021 - Aug 2021

- Designed and developed a full-stack Shiny application, providing DACSS faculty with a centralized platform to store, access, and edit school data.
- Utilized R programming to create interactive visual representations of UMass Amherst data, presenting it in the form of a schedule and publishing it on the school website for accessibility.

## PROJECT EXPERIENCE

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### Interviews Commonality

Amherst, MA

Full Stack Team Lead

Sep 2022 - Dec 2022

- Collaborated with an FBI agent to develop a mobile application using React Native, streamlining the witness interview process for child rescue cases.
- Built and containerized 5 microservices utilizing FastAPI and Docker, implementing machine learning models for in-app recording, transcription, and semantic analysis with 98% accuracy.
- Increased compilation and information derivation efficiency by 40% through optimized processes and techniques.

### RideShare

Amherst, MA

Full Stack Team Lead

Sep 2021 - Dec 2021

- Developed a dynamic web application using ReactJS to facilitate efficient communication between students seeking to carpool or share rides for various destinations.
- Built and containerized 10+ microservices using Node.js and Docker, enabling seamless communication.
- Utilized GitHub for effective communication and project management to lead the development team.

## SKILLS

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React, Svelte, Typescript, Javascript, Python, Java, R, C++, PostgreSQL, MongoDB, Swift, Firebase, Vue, Azure