Roshan Praveen Shetty

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EDUCATION

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

U-Tutors — **Amherst, MA**
Lead Full Stack Developer — *Jan 2023 - Present*

- Designing and implementing a student-to-student tutoring platform with an intuitive interface and integrated scheduling/payment systems.
- Collaborating on enhancing platform security, improving UX, and boosting user engagement through marketing and outreach.

GRUBBRR — **Boca Raton, FL**
Full Stack Developer Intern — *Jun 2022 - Dec 2022*

- Designed Menu Builder Tool with dynamic data nesting and 10+ features, including Excel interface.
- Improved system performance by 20% by transitioning to a reactive Svelte model with data immutability and consistency.

Tata Consultancy Services — **Amherst, MA**
Business Analyst Intern — *Jun 2021 - Aug 2021*

- Conducted EDA on time series data using Python to determine optimal machine learning algorithms, including decomposition of level, trend, seasonality, and noise.
- Implemented Random Forest Algorithm in machine learning models with an average accuracy of 93%.

University of Massachusetts Amherst SBS — **Amherst, MA**
Full Stack Developer — *Jun 2021 - Aug 2021*

- Created a full-stack Shiny application for DACSS faculty to manage school data.
- Used R programming to create interactive data visualizations and published them on the UMass Amherst website for accessibility.

PROJECT EXPERIENCE

Interviews Commonality — **Amherst, MA**
Full Stack Team Lead — *Sep 2022 - Dec 2022*

- Collaborated with an FBI agent to create a mobile app using React Native, streamlining witness interviews in child rescue cases.
- Developed 5 containerized microservices using FastAPI and Docker, integrating machine learning for in-app recording, transcription, and analysis with 98% accuracy.
- Improved compilation and information derivation efficiency by 40% through optimized processes and techniques.

RideShare — **Amherst, MA**
Full Stack Team Lead — *Sep 2021 - Dec 2021*

- Designed and developed a dynamic web application using ReactJS to streamline communication between students seeking ride-sharing.
- Implemented 10+ microservices using Node.js and Docker, ensuring seamless communication and facilitating efficient project management.
- Led the development team using GitHub for effective communication and project management.

SKILLS

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