Eashan Joshi

585-202-4547 | eashan.joshi.rit@gmail.com | LinkedIn | GitHub | New York, NY (Willing to relocate)

Technical Skills

Languages: C#, VB.NET, Python, JavaScript, SQL, R, Java, C/C++, TypeScript
Frameworks: .NET, Node.js, Firebase, OpenAI API
Infrastructure: AWS, Docker, Kubernetes, Apache Spark, Linux, Hadoop, Microsoft SQL Server, SAS, Jenkins
Others: Agile, REST APIs, CI/CD, TCP/IP, Git, LLMs, JSON, Unit Testing
Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer - Associate (In Progress)

Experience

Rochester Institute of Technology Aug. 2023 – Present
Software Engineering Research Assistant

- Innovated a prompt engineering prototype using Python, OpenAI API, and RAG techniques, improving AI response relevance by 12% through dynamic prompt generation and retrieval-based evaluations
- Applied CUDA for GPU acceleration to analyze 5M+ ChatGPT mentions, uncovering trends in programming prompts
- Built and optimized Neo4j queries using APOC procedures to analyze the Maven Central database, identifying dependency growth patterns and release cadence trends for the IEEE - ICMI community

FinSharpe Jan. 2023 – Aug. 2023
Software Engineer Intern

- Developed low-latency trading algorithms using C++ to optimize strategies and enhance system performance
- Leveraged Docker and Kubernetes for containerizing and orchestrating trading algorithms, improving system reliability during high-frequency trading and reducing errors by 15%
- Leveraged Python and machine learning to analyze 362 high-risk stocks and integrated a VaR strategy, improving risk management and securing an $850,000 investment for the firm

Yardi Sep. 2020 – Sep. 2021
Software Engineer - Full Stack

- Improved financial management efficiency by developing 80+ components in the Trust Accounting Application using C#, JavaScript and SQL, leading to a $300,000 reduction in operational costs
- Designed and implemented custom programming solutions using VB.NET and SQL, including tailored SQL queries and application modules, which streamlined client workflows and reduced data processing time by 20%.
- Built robust data pipelines and scalable business solutions using Apache Spark and C#, reducing financial data error rate by 15% in insurance management systems
- Created REST APIs within the Trust Accounting module of Yardi Voyager, automating workflows and addressing custom programming requests to meet unique client requirements

Publications

Joshi, E. M., Vanjara, N. M., Mkaouer, M. W., & AlOmar E. A. (2024). *Tracing dependency dynamics in the Maven ecosystem.* Manuscript under review for IEEE 4th International Conference on Computing and Machine Intelligence

Projects

Trust Accounting Suite | *C#, .NET, JavaScript, SQL*

- Developed tax calculation and insurance processing modules using .NET and SQL, streamlining fiduciary processes and improving efficiency by 20%
- Automated data transfers between banks and third parties by building RESTful APIs in .NET and using an Angular-based front-end, reducing manual work by 25% and cutting operational costs

Oil & Gas Compliance Management | *C#, .NET, JavaScript, SQL*

- Automated compliance data management with .NET and SQL, streamlining operational processes by 20%
- Created dashboards using Javascript and SQL to track compliance metrics, improving decision-making by 10%
- Streamlined data extraction and processing using SQL, reducing data handling time by 15%

Education

Rochester Institute of Technology
MS in Computer Engineering & Data Science May. 2025