Eashan Murlidhar Joshi

585-202-4547 | eashan.m.joshi@gmail.com | LinkedIn | GitHub | Austin, TX (Willing to relocate)

TECHNICAL SKILLS

Languages: Python, SQL, C#, VB.NET, JavaScript, R, Java, C/C++, TypeScript
Frameworks: .NET, ASP.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

Software Engineering Research Assistant   Aug. 2023 – May. 2025
Rochester Institute of Technology

- 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

Software Engineer Intern   May. 2023 – Aug. 2023
FinSharpe

- Developed low-latency trading algorithms using **C++** to optimize strategies and enhance system performance
- Containerized and orchestrated trading workloads with **Docker** and **Kubernetes**, reducing system downtime during deployments from 3 hours/month to under 15 minutes
- Leveraged **Python** and **machine learning** to analyze high-risk securities and integrated a VaR strategy, improving risk management and securing an $850,000 investment for the firm

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

- Improved financial management efficiency by developing 80+ components in the Trust Accounting Application using **C#**, **.NET JavaScript** and **SQL**, leading to a $300,000 reduction in operational costs
- Designed and implemented custom programming solutions using **VB.NET** and **SQL**, automating manual workflows and reducing data processing time by 70%, saving 60+ hours of analyst effort per month
- Generated robust data pipelines and scalable business solutions using **Apache Spark** and **C#**, reducing financial data error rate by 10% 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

PROJECTS

DebugMate - GenAI Software Debugging Assistant | *Python, LangChain, RAG, OpenAI API, GitHub*
- Engineered a GenAI-powered debugging tool using Retrieval-Augmented Generation (RAG) and prompt engineering for contextual grounding in ChatGPT, earning a 4.6/5 average user rating from developers
- Optimized multi-turn dialogues with dynamic context updates, prompt refinement, and sentiment-aware analysis, improving bug localization and reducing resolution time by 40% across programming languages

Trust Accounting Suite | *C#, .NET, JavaScript, SQL*
- Developed tax calculation and insurance processing modules using .NET and SQL, streamlining fiduciary operations and boosting efficiency by 20%
- Built RESTful APIs with Angular front-end to automate bank data transfers, reducing manual operations
- Led development of compliance data automation and dashboards for the oil and gas sector using .NET, JavaScript, and SQL, streamlining data handling and enhancing decision-making capabilities

EDUCATION

Rochester Institute of Technology   Rochester, NY
MS in Computer Science (Data Science Track) GPA: 3.74   May. 2025

Pune Institute of Computer Technology   Pune, India
BE in Computer Engineering   May. 2020