Eashan Murlidhar Joshi

585-202-4547 | eashan.m.joshi@gmail.com | LinkedIn | GitHub | Austin, Texas (Open to relocation)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java, C++, C#, Go, R, VB.NET
Frameworks: React, Node.js, .NET, ASP.NET, Angular, Spring Boot, Django, Firebase, LangChain, OpenAI API
Infrastructure: AWS (EC2, S3), Docker, Kubernetes, Linux, Terraform, Apache Spark, Jenkins, Microsoft SQL Server
Developer Tools: Git, CI/CD, RESTful APIs, Prompt Engineering, Agile, JSON, Unit Testing, Neo4j, CUDA, TCP/IP
Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer - Associate (In Progress)

EXPERIENCE

Graduate Research Assistant — Aug. 2023 – May 2025
Rochester Institute of Technology — Rochester, New York

- Built backend infrastructure for a retrieval-augmented generation (**RAG**) system using **Python**, **OpenAI API**, and vector search, boosting downstream task performance by 3x through context aware prompt injection
- Designed high-throughput GPU data pipelines with **CUDA**, processing 5M+ ChatGPT prompt logs and extracting 15K+ unique prompt patterns to support model tuning and evaluation
- Architected graph-based systems in **Neo4j** using **APOC** procedures to analyze 220K+ Maven Central libraries, uncovering patterns in dependency growth and release cadence for IEEE - ICMI research

Software Engineer Intern — May 2023 – Aug. 2023
FinSharpe — Remote

- Engineered low-latency backend components in **C++** to support trading strategy execution, improving system responsiveness under real-time market conditions
- Containerized and orchestrated core services using **Docker** and **Kubernetes**, reducing deployment downtime from 3 hours/month to under 15 minutes and improving system reliability
- Integrated **Python**-based **machine learning** models to analyze high-risk securities and embed VaR-driven logic into backend pipelines, contributing to an $850,000 investment

Software Engineer — Sep. 2020 – Sep. 2021
Yardi — Santa Barbara, California

- 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
- 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 & Refactoring Assistant | *Python, LangChain, OpenAI API, GitHub*

- Engineered a GenAI-powered debugging tool using Retrieval-Augmented Generation (RAG) and prompt engineering, earning a 4.6/5 user rating and reducing bug resolution time by 40% across programming languages

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

- Developed tax, insurance, and compliance modules in .NET, JavaScript, and SQL, and built RESTful APIs with an Angular front-end to automate transfers, streamlining fiduciary operations and boosting efficiency by 20%

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

- Automated compliance data management with .NET and SQL, streamlining operational processes and created dashboards using Javascript and SQL to monitor 50+ compliance metrics, improving decision-making

SyncWrite: Distributed Real-Time Text Editing Platform | *Node.js, Firebase*

- Prototyped a distributed text editor enabling real-time collaboration for 4+ users using Node.js, Firebase, and WebSocket, designed for sub-150ms latency and consistent sync across concurrent sessions

EDUCATION

Rochester Institute of Technology — Rochester, New York
MS in Computer Science and Data Science, GPA: 3.77 — May 2025

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