

Megha Narendra Simha

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Professional Summary

Software Engineer with 5+ years building high scale distributed systems and microservices. Delivered backend and full stack applications used by thousands, reducing latency by 30% and increasing adoption by 50%. Expertise in system design, APIs, and database optimization.

Professional Experience

Student Worker Teaching Assistant, City University of Seattle, Seattle Jan 2025 – Present

- Led support for AI, Database Systems, Cloud Computing, and Python courses for **200+ students** and 8 professors, improving assignment completion and technical understanding through hands on mentoring.
- Organized and executed a technical hackathon with **50+ participants**, mentoring teams to build scalable software and AI based solutions.

Software Developer Intern, Costco Wholesale, Issaquah Jun 2024 – Aug 2024

- Improved distributed .NET Core microservices by optimizing asynchronous workflows and SQL queries, reducing API latency by **30%** in high throughput systems.
- Built secure REST APIs using OAuth2, JWT, and RBAC, supporting **8,000+ requests per day** and improving system reliability.
- Presented system architecture and validation workflows to **50+ stakeholders**, improving cross team understanding and adoption.

Application Development Analyst, Accenture, Bengaluru Feb 2022 – Feb 2023

- Built scalable REST APIs using .NET Core for seat booking workflows, supporting **10,000+ employees** with real time system availability.
- Created a QR-based booking system and revamped the UI with lazy loading and CDN optimizations, reducing manual check-in effort by **60%**, increasing usage by **50% month over month**, and cutting page load time by **40%**.
- Led onboarding and mentoring for 5 engineers, improving team productivity by **30%**.

Application Developer, IBM PMI Client, Bengaluru Mar 2021 – Dec 2021

- Built modules for inventory management, downtime tracking, and session handling for **800+ users** in a .NET based MES system.
- Resolved **50%** of production issues, improving system stability and reducing downtime.

Software Developer, NTT Data McKesson Client, Bengaluru Apr 2019 – Mar 2021

- Led RxChange feature development in a .NET pharmacy system, optimized SQL queries and stored procedures reducing transaction latency by **30%**.
- Built and delivered technical documentation and knowledge transfer sessions for **50+ team members**, improving onboarding and system understanding.
- Demonstrated product capabilities to **100+ stakeholders**, driving adoption and alignment across teams.

Education

M.S. Computer Science, City University of Seattle, Seattle WA Apr 2024 – Mar 2026 Dean's List Spring 2025 Summer 2026 Top 10%

B.E. Computer Science, JSSATE Bengaluru India Jun 2014 – Jun 2018

Projects

- **Agentic Supply Chain System** Built a multi agent system using FastMCP, PGVector, and PostgreSQL for real time forecasting and automated decision making, winning **1st Place Hackathon 2025**.
- **Visual Insight Generator** Created a React based application using CNN and RNN models with AWS services, achieving **95% accuracy** on 200+ images.
- **BeyondBabyBlues** Built an AI powered application using Flask, LangChain, and RAG for personalized workflows and task automation.

Technical Skills

Languages: Python, C#, Java, TypeScript, JavaScript

Frameworks: .NET Core, React, Node.js, Spring Boot

AI ML: LangChain, RAG, FastMCP, PGVector, Scikit learn, CNN, RNN

Cloud DevOps: Azure, AWS, CI CD, Docker, OAuth2, JWT

Systems: Microservices, REST APIs, CQRS, DDD, Distributed Systems

Databases: PostgreSQL, SQL Server, MySQL, MongoDB, Cosmos DB