Megha Narendra Simha

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Software Developer and AI Enthusiast Specializing in Full-Stack Development, Cloud Platforms, and Scalable Systems | Seeking New Opportunities in Software Engineering and AI roles.

Skills

Programming, Frameworks & Cloud: C#, .NET Core, Python, TypeScript, JavaScript, HTML/CSS, React, Angular, Vue.js, Node.js, Next.js, SQL Server, MySQL, MongoDB, Cosmos DB, DynamoDB, Azure, AWS (EC2, Lambda, API Gateway, S3), Docker, Kubernetes, Terraform.

AI/ML & Agentic Systems: Generative AI tools, LangChain, FastMCP, Agentic workflows, PGVector semantic search, PostgreSQL optimization, forecasting systems, multi-agent systems, prompt engineering, LLM fine-tuning, retrieval-augmented generation (RAG), PyTorch, TensorFlow, scikit-learn, model deployment and serving.

Software Engineering & Architecture: RESTful APIs, GraphQL, CI/CD (GitHub Actions), software testing and automation, OOP, DDD, CQRS, system design, design patterns, Agile/Scrum, OAuth, JWT.

Experience

Student Worker / Teaching Assistant, City University of Seattle, Seattle   **Jan 2025 – Present**
- Supported **AI, Database Systems, and Cloud Computing** courses for **200+ students** and **8 professors**, managing course shells and resolving technical issues.
- Organized a **Hackathon with 50+ participants**, coordinating projects, mentorship, and logistics for student engagement.

Software Developer Intern, Costco Wholesale, Issaquah   **Jun 2024 – Aug 2024**
- Enhanced distributed **.NET Core microservices** for pricing and inventory, improving API response times by **30%**.
- Enhanced API security and access control using **OAuth2, JWT, and .NET Core middleware**, reducing vulnerabilities and ensuring secure data transactions.

Application Development Analyst, Accenture, Bengaluru   **Feb 2022 – Feb 2023**
- Built enterprise Hoteling App using **ASP.NET Core, C#, and SQL Server**, streamlining workspace booking for **10,000+** users.
- Deployed services via **Azure DevOps CI/CD**, improving release efficiency and service reliability by **35%**.

Application Developer, IBM, Bengaluru   **Mar 2021 – Dec 2021**
- Maintained and supported a **VB.NET**-based Manufacturing Execution System (MES) for a tobacco client by managing **SQL jobs, stored procedures, and system configurations**.

Software Developer, NTT Data, Bengaluru   **Apr 2019 – Mar 2021**
- Developed **C# .NET Windows** applications using **ADO.NET** and automated workflows with PowerShell for McKesson Pharmacy.
- Optimized data synchronization between SQL Server and internal systems, reducing manual processes by **20%**.

Achievements

- **1st Place**, across USA, Low Code Agenthon by **2025**, organized by iLink Digital
- **3rd Place**, SET Pitch Competition **2024**, organized by Net Impact, City University of Seattle
- Dean's List, Summer **2024**, Fall **2024**, Winter **2025**, Spring **2025**, Summer **2025** – Top **10%** in the Computer Science department

Education

Master of Science in Computer Science, City University of Seattle, Seattle
Bachelors in Computer Science and Engineering, JSSATE, Bengaluru

Projects

- Built a full agentic **Supply Chain Management System** featuring semantic search with **PGVector**, real-time forecasting, and automated reorder logic using **FastMCP** and PostgreSQL, enabling accurate stock prediction and inventory insights.
- Developed **Visual Insight Generator**, a React tool using AWS Rekognition, Lambda, and DynamoDB, achieving **95%** detection accuracy on over **200** images.
- Created **BeyondBabyBlues**, an AI Agent for Postpartum Depression using **Flask, LangChain ReAct, and Mistral AI**, integrating **RAG** and **Google Calendar API** for mental health support and specialist matching.