Megha Narendra Simha
Seattle, USA
+1 2065961323 | narendrasimhamegha@cityuniversity.edu | Megha Narendra Simha | LinkedIn

SKILLS

- .NET Core, ADO .NET, Object Oriented Programming, Command and Query Responsibility Segregation, Domain Driven Design, MediatR ,Python
- Angular 8, JavaScript, ES6, React Redux, Tail Wind CSS, Hooks,Rtk Query, HTML5, CSS Bootstrap,Typescript
- MYSQL, Azure, Cosmos DB, Azure Function App, Azure Service Bus, Azure CI/CD Pipeline, Azure DEVOPS, Azure Source Control
- Amazon API Gateway , S3, Dynamo DB,Amazon Rekognition,Amazon Cognito, AWS Lambda, Bed Rock
- GIT, JIRA,Trello,Scrum,Kanban

EDUCATION

Master's in Computer Science, City University of Seattle - 2025

Computer Science and Engineering, JSS Academy of Technical Education -2018

WORK EXPERIENCE

City University of Seattle, Seattle, WA   **January 2025 to Present**
Student Worker/Teaching Assistant (Part-Time)
- Reviewed and graded programming assignments and technical Hands on Skills for Bachelor's and Master's Computer Science courses, ensuring adherence to coding standards and best practices.
- Assisted professors in refining course content by identifying gaps in technical explanations and optimizing instructional materials.
- Led technical study sessions, providing in-depth explanations of algorithms, data structures, and software development concepts to enhance student comprehension.

Costco Wholesale, Issaquah WA   **Jun 2024 to Aug 2024**
Software Developer
- Optimized Pricing and Inventory microservices as part of the OMS Modernization project, reducing API response time by 30% and improving system scalability by leveraging DDD, CQRS, and MediatR patterns in C# .NET Core.
- Implemented robust API validation and security measures using FluentValidation and JWT authentication, reducing authentication failures by 40% and enhancing data integrity across services.
- Demonstrated API validation and service functionality to an audience of 50+ stakeholders.
- Strengthened role-based access control (RBAC) by implementing granular authorization policies, ensuring secure access management and reducing unauthorized data access incidents by 35%.

Environment: .Net Core, Domain Driven Design, CQRS, Azure Cosmos DB, MediatoR, Fluent Validation, Anti-Corruption Layer, REST API, Azure Service Bus,JWT

Accenture, Bangalore   **Feb 2022 to Feb 2023**
Application Development Analyst
- Led the development of a cloud-based Hoteling Application using Angular, .NET Core, and C#, orchestrating REST APIs for key functionalities like booking, cancellation, check-in, and checkout.
- Designed and implemented a QR code-based booking and check-in system, reducing check-in time by 40%, minimizing front desk congestion, and enabling seamless, contactless check-ins for guests. By optimizing performance with lazy loading, SVGs, and CDN-hosted assets, the system improved page

load speeds, enhanced mobile responsiveness, and ensured a smooth user experience even during peak booking hours.

- Utilized Cosmos DB for efficient application configuration storage, enhancing data retrieval speed and system scalability.
- Mentored and trained new recruits, accelerating their onboarding process and improving team productivity in both technical and functional aspects of the application.

Environment : .NET Core 6, REST API, CRUD, Angular 8, Azure , SQL Server Management Studio, Postman, HTML 5 ,CSS 3,TypeScript,Visual studio code, Microsoft Visual Studio 2019,Object oriented programming, JSON, Cosmos DB, SVG, MySQL, PAAS, GIT, Agile,TypeScript,Azure Devops,Azure Service Bus,Azure Function Aps,C#,Agile,Scrum

NTT Data, Bangalore   **Apr 2019 to Mar 2021**
Software Developer

- Developed a robust Windows application using C# .NET and ADO.NET, integrating PowerShell scripts to automate background tasks and improve workflow efficiency.
- Led the implementation of key Rx processing features, including dispensing, verification, and Rx change, optimizing performance through efficient stored procedures and SQL queries.
- Played a pivotal role in requirements gathering, technical analysis and conducted feature demonstrations to clients, ensuring smooth knowledge transfer and project handover.

Environment: ASP.Net , ADO.net , SQL , Kanban,PowerShell, VB.Net

PROJECTS

Visual Insight Generator:

Developed a Visual Insight Generator Application utilizing Amazon Rekognition for facial recognition and image label generation. Implemented a React-based interface for image upload, with backend processing through AWS Lambda and API Gateway, integrating S3 for storage and DynamoDB for data management. Leveraged Amazon CloudWatch for monitoring and troubleshooting Lambda functions.

Expiry Tracker for Groceries

Developed a grocery management web application using the MERN stack (MongoDB, Express.js, React.js, Node.js) to enable seamless item addition, editing, deletion, and tracking. Integrated MongoDB Atlas for secure cloud storage and real-time access. Implemented a dynamic expiration tracking system that highlights nearing and expired items, enhancing inventory management. Added AI-powered recipe generation using Ollama to reduce food waste by suggesting recipes based on expiring items. Built real-time notifications and automated status updates through backend scheduling, ensuring a smooth user experience. Utilized GitHub for efficient collaboration, version control, and seamless code integration.

AI-Powered Learning Assistant for Education:

Developed an AI-powered learning assistant leveraging Amazon Bedrock and the open-source FLAN-T5 model. The system uses prompt engineering techniques to generate personalized study materials, quizzes, and learning summaries. Backend processing is handled through AWS Lambda and API Gateway, with data securely stored in DynamoDB. This system helps students grasp complex topics through AI-driven explanations, making learning more accessible and personalized.

VOLUNTEERING

Full Stack Developer   **May 2023 to Jun 2024**
United States of Africa (Austin, TX) Remote

USAF is a nonprofit organization. Worked as a Front End Developer on Zumaridi Video Conferencing application used to schedule, host meetings which is focused on digital literacy , mentorship and capacity building training for youths to acquire skills.

Environment: React, VS Code, SQL, Postman, Redux, Typescript, Tailwind CSS , HTML 5, Bootstrap,

Chrome, Formik, Figma,Rtk Query,Trello