

# Manushi

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## Professional Summary

Senior **Full Stack Developer** with 9+ years of experience in **C#, .NET Core, ASP.NET MVC, React, and Node.js**. Proficient in building scalable, high-performance applications with modern **cloud** and **container-based deployment**. Hands-on with **Postman clusters, Jest** for testing, and full-stack development using **TypeScript, React, C#, and RESTful APIs**. Experienced in modernizing **legacy systems**, ensuring seamless migration to newer technologies without disrupting workflows or requiring major retraining. I recently completed a **Master of Science in Computer Science** at Northeastern University, where I explored **large language models (LLMs), Retrieval-Augmented Generation (RAG)**, and their integration into full-stack applications. **Fully authorized** to work in the U.S.; no sponsorship needed. Actively seeking full-time software development opportunities.

## Technical Skills

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

**Frameworks & Libraries:** .NET Core, ASP.NET MVC, React.js, Angular, Node.js, FastAPI, Express.js, Bootstrap

**Backend & API Development:** RESTful APIs, Microservices, ASP.NET Web API, Express.js, API Gateway

**Databases:** SQL Server, Oracle PL/SQL, MongoDB, MySQL, SQLite

**Cloud & DevOps:** Azure (Functions, DevOps, App Services), AWS (Lambda, RDS, S3, ECS), Docker, Kubernetes, Jenkins, GitHub Actions

**Testing & Tools:** Postman, Swagger, Jest, Pytest, React Testing Library, NUnit, Selenium, Git, GitHub

**Security:** JWT, OAuth, RBAC, CORS

## Work Experience

**Tesco, Bangalore, KA, India**

Sep. 2010 – Nov. 2019

*Senior Software Engineer*

- Developed and maintained enterprise-level web applications using **ASP.NET MVC** and **.NET Core**, improving store operations by **25%**.
- Worked extensively on **legacy systems**, modernizing them incrementally with **React, Node.js** and **TypeScript** while preserving workflows to minimize retraining.
- Built scalable **RESTful APIs** in **.NET Core** and **Node.js**, supporting **millions of daily transactions**; tested clusters using **Postman** and automated deployment with **Jenkins, Docker**, and **Azure DevOps**.
- Deployed containerized microservices to **AWS using ECS and Lambda**, integrated with RDS for scalable storage, and managed builds with Jenkins and GitHub Actions.
- Led full-stack development using **React, Angular**, and **C#**, ensuring high performance and user-friendly design for store employees.
- Led backend development and API integration for an Android delivery app used in **3,000+ UK stores**, reducing delivery processing time by **40%**.
- Co-designed and built a stock management system with Angular and .NET Core, improving replenishment accuracy.
- Optimized **SQL Server** and **Oracle PL/SQL** databases, reducing query times by **30%** and overstock by **20%**.
- Created robust unit and integration tests using **NUnit, Jest**, and **Postman**, ensuring code reliability and coverage throughout sprints.
- Mentored junior developers and improved workflows using **Git, Jest**, and CI/CD automation.
- Actively participated in **Agile ceremonies** and worked in a **Scrum team**, delivering sprint commitments consistently and maintaining strong velocity.
- Contributed to an innovation project featured in *Bangalore Mirror*: [Tesco Innovation Project](#).

## Projects

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- **Smile Detection App** – Built a full-stack React & FastAPI web app for real-time smile detection using OpenCV, with live video, bounding boxes, and event logging to SQLite.
- **AWS Serverless Task Manager API** – Built a cost-efficient, serverless task management API using AWS Lambda, API Gateway, and DynamoDB with JWT auth, pagination, and Swagger documentation.
- **ShopEazy** – Developed a full-stack e-commerce platform using Node.js, React, and MongoDB for a seamless shopping experience.
- **Pawsome Pals** – Created a social media platform for dog lovers using Android, Firebase Firestore, Google Login, and Maps API.
- **Real-Time ASL Recognition** – Built a gesture recognition system using MediaPipe, OpenCV, and a CNN in PyTorch for interpreting ASL via webcam.
- **LSTM based QA System** – Developed a question-answering app using TensorFlow, SQuAD 2.0 dataset, and Tkinter GUI.
- **Digit Recognition Model** – Created neural networks with PyTorch and transfer learning for MNIST digit classification using webcam input.
- Explore more projects at [Project Portfolio](#).

## Education

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**Northeastern University, Boston, MA, USA**  
Master of Science in Computer Science (GPA: 3.96)

Completed: 2024

**MV Jayaram College of Engineering, Bangalore, KA, India**  
Bachelor of Engineering in Computer Science & Engineering (GPA: 3.87)

Completed: 2010