

Rooshmica Ramesh

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Results driven Full Stack .NET Developer with 5+ years of experience designing, developing, and optimizing scalable web applications. Skilled in .NET Core, Angular, SQL Server, Azure, Microservices, REST APIs, and CI/CD pipelines. Proficient in enhancing system efficiency, reducing processing time. Proven history of optimizing databases and modernizing legacy applications to improve performance and user engagement.

Technical Skills

- **Programming Languages:** C#, Python
- **Frontend Development:** React, Angular, TypeScript, JavaScript, jQuery, HTML5, CSS3, Bootstrap
- **Backend Development:** .NET Core, MVC, Web API, EF, LINQ, WCF
- **Databases:** SQL Server, PostgreSQL, MongoDB
- **Cloud & DevOps:** Docker, Azure (Functions, Service Bus, SQL, Cosmos DB, Storage), Git, Jenkins, Azure DevOps
- **AI & ML:** OpenAI GPT-4, LangChain, FAISS, LlamaIndex, Embeddings, RAG
- **Architecture & Design:** Microservices, API Gateway, Design Patterns, SOLID Principles
- **Development Methodologies:** Agile (Scrum), Test-Driven Development (TDD)

Education

Master of Science in Artificial Intelligence Technological University of Shannon	Athlone, Ireland Sept 2024 – Apr 2025
Bachelor of Computer Science Engineering Anna University	Chennai, India Jun 2014 – Apr 2018

Professional Experience

Cognizant Solutions Senior Software Engineer	Chennai, India Dec 2023 – Sept 2024
Project Highlights: Nestle RBS HR Solutions <ul style="list-style-type: none">• Architected cloud-native solutions with .NET Core, Azure Functions, and Cosmos DB, enhancing scalability and fault tolerance by 40%.• Utilized NGRX for state management ensuring predictable state handling for a high-traffic app serving 1,000+ global users.• Integrated AI services into enterprise applications using RAG, LangChain, OpenAI GPT-4, and FAISS vector DB within a .NET Core + Angular framework.• Designed modular, secure REST APIs in .NET Core for AI orchestration, seamlessly interfacing with Python FastAPI LLM microservices.• Automated weekly sales summaries and visual trend analytics using Python and GPT, integrated into an Angular dashboard.• Unit testing and TDD adoption, reducing bugs by 60% and improving code quality.• Led a team of three in data migration, legacy system decommissioning, and new application development, delivering projects on time.	
Medusind Solutions Senior Software Programmer	Chennai, India Nov 2020 – Dec 2023
Project Highlights: Medclarity Healthcare	

- Demonstrated proficiency in converting legacy monolithic architecture to a microservice-based architecture, enhancing system scalability and flexibility.
- Built REST APIs using .Net Core and integrated with Angular front-end, boosting user engagement reducing.
- Created RAG application with Python, FastAPI, and LLAMA models for Insurance Companies
- Used SQL and T-SQL for efficient data management and complex queries, supporting data migration and high-traffic app performance. I migrated data from PostgreSQL DB to SQL SERVER and built a new website.
- Led migration of SQL Server database to Azure SQL, cutting infrastructure costs by 20% and increasing data processing speeds by 25%.
- Achieved 95% on-time delivery rate through effective Agile sprint collaboration.
- Ensured seamless production deployment and provided robust post-deployment support.

Maitri Technology Solutions

Chennai, India

Software Developer

Nov 2018 – Apr 2020

Project Highlights:

Norwich University

- Developed REST APIs and MVC services in C# for Salesforce-OnBase integration.
- Built dynamic frontends using Bootstrap and jQuery for responsive dashboards.
- Automated and optimized Salesforce data flows, reducing API usage and improving cross-platform data accuracy by 40%.
- Gathered requirements and provided technical support to meet client expectations. Aligned Salesforce and OnBase integration with business goals.

Academic Projects

MoodMate – AI Mental Wellness Assistant

- Built an AI chatbot using BERT, RAG, and LLaMA-3 for emotion detection and empathetic responses.
- Enabled voice interaction with Whisper, deployed frontend in Next.js, backend in FastAPI with PostgreSQL.
- Fine-tuned BERT on Kaggle dataset for emotion classification.
- Focused on privacy, accessibility, and real-time mental health support.

Revela – AI-Powered Fashion Assistant (RUN-EU Finalist)

- Built a wardrobe-based outfit recommender using RAG, FAISS, and LLMs.
- Developed UI with Gradio, tested end-to-end pipeline in Google Colab.
- Enabled image uploads, style-based suggestions, and natural language queries.

Key Achievements & Certifications

- BIP Smart Everything Connecting Artificial Intelligence Tools with Business Ideas Finalist - RUN EU (May 2025)
- Galactic Problem Solver - Nasa International Space App Hackathon (Nov 2024)
- Star Performer of the Month – Cognizant Solutions (May 2024)
- Star Performer of the Month – Medusind Solutions (June 2024)

Availability

Available to join immediately and eager to learn and explore new technologies to contribute effectively to organizational goals.