

V Tanya Sharma

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SUMMARY

Driven web developer passionate about building cloud-native solutions that enrich lives. Skilled in agile development of robust, scalable web systems using cutting-edge technologies to provide meaningful business value and great end-user experiences.

EXPERIENCE

Associate Software Developer

Ecolab

July 2022 - Present, Bengaluru, India

- Designed and developed a **microservice**-based web application using **C# and DotNet** to quantify Ecolab's customer value, integrating Azure Service Bus messaging, serverless computing and Storage services. Enhanced backend functionality leading to a significant increase to **84%** in customer satisfaction.
- Implemented **unit testing for a legacy code** base using **NUnit and NSubstitute** frameworks. Achieved **90% code coverage** by testing **150 scenarios** across various modules and functionalities.
- Enhanced security of the application by **migrating from conventional authentication methods to Managed Identity** methods. Utilized **Azure Active Directory and Azure Key Vault** to securely access and store sensitive data and credentials.
- **Migrated deprecated Nuget packages** to the latest versions. Refactored and tested the legacy code to ensure compatibility and functionality. Faced challenges in adapting to the new features and requirements of the framework. Demonstrated comprehensive **knowledge of the business and the code**.
- Upgraded the organization-wide application from .NET Core 3.2 to .NET 6. Collaborated with different teams to ensure seamless transition.
- Conducted **research and analysis on Azure SQL Database storage options** : **vCore and DTU models**. Compared their **performance and cost** using various metrics and scenarios. Presented a detailed report and documentation of the findings and recommendations.

SKILLS

Programming Languages: **c# 10**

Database: **MSSQL, Azure Cosmos DB, Azure Blob Storage, Azure Queue Storage, Azure Table Storage**

Frameworks: **DotNet 6, DotNet 8, NUnit, NSubstitute**

Development Tools: **Postman, ServiceBus Explorer**

Project Management Tools: **AzureDevOps**

Design and Simulation Software: **Visual Studio 2022, Visual studio code**

Version Control: **GitHub**

Methodologies: **Agile(Scrum)**

Design Patterns and Architecture: **OO Design Pattern, SOA, Microservices**

PROJECTS

Cloud Based Wearable Dance Assitant

January 2022 - May 2022

- Created a dance teaching/learning system with sensor, cloud and microcontroller to compare and feedback on dancer motions.
- Analyzed and contrasted measurable movements between teacher and student dances to identify mimicry by motion parameters.
- Enabled granular feedback and accuracy improvements with reconfigurable multi-user sensing for physical activity recognition.

IOT based Traffic Regulator for emergency vehicles

August 2021 - December 2021

- Developed a traffic management platform for emergency vehicles.
- Used edge IoT and multi-sensor data for traffic analytics and control.
- Applied machine learning to improve emergency response times to under 2 minutes.

AI based Smart Traffic Police Man

- Created a computer vision system for helmet detection in two-wheelers with 99.1% accuracy.
- Trained a real-time YOLOv3 model on 15,000 annotated images of vehicles, riders, and helmets.
- Innovated on helmet detection and scene analysis for scalable and automated enforcement.

EDUCATION

Bachelor of Technology in Electronics and Communication with specialization in Embedded Systems

Vellore Institute of Technology • Amaravathi, Andhra Pradesh • 2022 • 8.46

CERTIFICATIONS

Mircrosoft Azure Fundamentals

Microsoft • 2022