

# VENKATESH VEMULA

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## Profile Summary

Application Developer with **3+ years of experience** building scalable **web applications on the Microsoft stack** using **.NET Core, C#, and SQL Server**. Skilled in **frontend development** with **Angular, HTML5, CSS3, and JavaScript**, and experienced in **CI/CD automation, Agile delivery, and cloud deployment (AWS)**. Strong focus on performance, reliability, and delivering customer-centric software.

## Technical Skill

**Backend:** .NET Core, C#, REST API, LINQ, Entity Framework, IIS

**Frontend:** Angular, HTML5, CSS3, JavaScript, ReactJS

**Database:** Microsoft SQL Server, MySQL

**Cloud & DevOps:** AWS (EC2, Lambda, S3, RDS), Azure DevOps, CI/CD, Git

**Concepts:** SOLID, TDD, JWT Authentication, Clean Architecture, Agile/SCRUM

## Work Experience

### Software Engineer | Aquastride Technology Pvt. Ltd.

Oct'22 – Present

- Developed and maintained .NET Core applications with SQL Server, improving system speed and reliability.
- Worked closely with product managers, QA, and developers in Agile/SCRUM to deliver features on time.
- Delivered multiple production-ready modules using .NET Core and SQL Server within sprint deadlines.
- Built RESTful APIs for complex data handling and used JWT/OAuth2 for secure authentication.
- Followed SOLID principles and Clean Architecture to keep the codebase clean and easy to maintain.
- Deployed applications on IIS and AWS EC2, and used S3 for file storage and CloudWatch for monitoring.
- Automated build and deployment processes using Azure DevOps and Git, reducing manual effort by 80%.
- Helped improve code quality by reviewing code and guiding junior developers.
- Reduced AWS cloud costs by about 15% through regular monitoring and optimization.

## Projects

### WaterVise2 – Water Distribution Network | .Net Core, C#, Angular, MS SQL, MQTT, AWS

- Engineered a **.NET Core-based IoT control system** for managing 10,000+ RTUs using **multithreading** and **async operations**, improving real-time communication by **30%**.
- Configured **AWS RDS (MSSQL)** as the primary database layer, enabling automatic scaling and improving query latency by 20%.
- Developed an **Angular** based dashboard visualizing water network topology via **Google Maps API**, achieving **20% faster render times** through **lazy loading** and optimized data binding.
- Deployed and monitored applications using **IIS, AWS EC2, S3, and CloudWatch**, achieving 99.9% uptime.

## Education Details

### Pallavi Engineering College

B.Tech – Civil Engineering

2019 – 2022 | Percentage: 75%

**Aurora Polytechnic College**  
Diploma – Civil Engineering  
2016 - 2019 | Percentage: 79%