**Sai Teja Kolli**

**Software Engineer**

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**Summary**

* Results-driven Software Engineer with almost 4 years of experience in the full Software Development Life Cycle (SDLC), specializing in designing, developing, and deploying scalable enterprise applications using the Microsoft .NET ecosystem.
* Proficient in building robust web and API-based applications using JavaScript, Angular (frontend) and C#, ASP.NET, Web API, Entity Framework (backend), adhering to SOLID principles and Clean Architecture.
* Hands-on expertise in database development with SQL Server and PostgreSQL, including writing complex T-SQL queries, stored procedures, functions, and triggers, as well as performance tuning and query optimization.
* Experienced in Microsoft Azure for cloud-based application hosting, storage, and monitoring, along with Azure DevOps for CI/CD pipelines, leveraging services like Azure App Services, Azure SQL, Blob Storage, and Azure Monitor to ensure scalable, secure, and high-performance deployments.

**Work Experience**

**Citigroup, TX** **May 2023 - Current**

**Software Engineer.**

* Designed and built high-performance web applications using ASP.NET MVC and Angular, leveraging reusable Angular components and modular architecture to improve page load speeds by 35% and increase user engagement by 50% for financial platforms handling sensitive transactions.
* Developed secure RESTful APIs and backend services using C#, .NET Core, and SQL Server to support high-volume financial systems, optimizing data retrieval by 40% through Entity Framework improvements.
* Integrated Cosmos DB with ASP.NET Core to enable real-time financial data processing, maintaining sub-100ms response times for applications serving over 1 million users.
* Automated testing using NUnit and other frameworks, achieving 90% code coverage and decrease production defects through test-driven development (TDD).
* Built scalable microservices with .NET Core, ensuring secure API communication and Kubernetes orchestration, successfully handling 200K+ concurrent requests during peak trading hours.
* Deployed high-availability cloud services on Microsoft Azure using .NET SDK, implementing auto-scaling and fault tolerance to improve uptime while cutting costs by 30%.
* Optimized SQL Server performance using advanced query tuning, indexing, and stored procedure refinements, reducing execution times by 50% and enhancing financial reporting efficiency.
* Collaborated with cross-functional teams (QA, DevOps, and Product) to streamline CI/CD pipelines, ensuring seamless deployments and high-quality releases for mission-critical financial applications, reducing deployment cycles by 25%.

**Accenture, India January 2020 – July 2021**

**Software Engineer.**

* Built scalable and efficient applications, responsive web applications using ASP.NET Core MVC, Angular, and Blazor WebAssembly, enabling seamless cross-platform experiences for both desktop and mobile users.
* Spearheaded the migration of outdated .NET Framework applications to .NET 6+ and ASP.NET Core MVC, bring down maintenance costs by 60%, eliminating technical debt, and improving system reliability and performance.
* Developed RESTful APIs using ASP.NET Web API with JWT authentication, Swagger/OpenAPI documentation, and versioning strategies, streamlining integration for frontend teams and third-party partners while reducing onboarding time by 30%.
* Optimized SQL queries, implemented indexing strategies, and normalized database schemas to handle 1+ million records efficiently, achieving sub-second response times and reducing server load by 35% using Dapper ORM and T-SQL.
* Implemented unit tests (xUnit/NUnit) with mocking (Moq) and integration tests (Test Containers, Postman) to ensure 90%+ code coverage, lower production bugs by 40% and improving software quality through CI/CD pipeline enforcement.
* Set up CI/CD pipelines using AWS CodePipeline and CodeBuild, automating testing and deployments to shorten release cycles by 70% and boost team efficiency.
* Enforced secure coding practices with AWS Secrets Manager, IAM policies, and role-based access, ensuring compliance with security standards and passing audits with no critical vulnerabilities.

**Skills & Certification**

**Back-End:** C#, Java (17/11/8), Python, VB.NET, T-SQL, SQL

**.NET Ecosystem:** NET Framework, .NET Core, .NET 6/7/8, ASP.NET MVC, ASP.NET Core MVC, Razor Pages, Blazor, Web API, WCF, SignalR, Entity Framework / EF Core, Dapper

**Front-End:** JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, Bootstrap, jQuery, React, Angular, Vue.js

**Databases:** MS SQL Server, MySQL, PostgreSQL, Cosmos DB

**Testing & QA:** NUnit, Selenium, Moq, Integration Testing, Unit Testing, Mocking, Test-Driven Development (TDD)

**Cloud Platforms:** Microsoft Azure (App Services, Functions, Blob Storage, Azure SQL, Key Vault, Azure DevOps), AWS (CodePipeline, IAM, Secrets Manager)

**DevOps & CI/CD:** Azure DevOps, Jenkins, Git, GitLab, Docker, Kubernetes, Terraform, Swagger UI

**Development Tools & Utilities:** Visual Studio, VS Code, Eclipse, Postman

**Methodologies & Other Tools:** Agile, Scrum, Kanban, Waterfall, SDLC, Microservices, Jira, Confluence

[**Microsoft Certified: Azure Developer Associate**](https://learn.microsoft.com/en-us/users/saitejakolli-2804/credentials/fd8364f8661cdfb9)

**Education**

**Masters in Computer & Information Science May 2023**

University of North Texas, TX, USA.