

## Vinod Vallepu

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### SUMMARY

Detail-oriented and highly skilled .NET Developer with extensive experience in designing, developing, and maintaining scalable enterprise applications. Proficient in C#, .NET Core, ASP.NET MVC, and RESTful API development, with proven expertise in cloud platforms such as AWS and Azure. Strong background in database optimization and SQL Server performance tuning, along with hands-on experience in microservices architecture and DevOps pipelines. Known for delivering secure, high-performing solutions that meet both business and compliance requirements, including HIPAA, PCI-DSS, and SOC 2 standards. Adept at collaborating within Agile teams, mentoring junior developers, and consistently achieving on-time, high-quality deliverables.

### TECHNICAL SKILLS

**Programming & Frameworks:** C#, .NET Core, ASP.NET MVC, WCF, HTML, CSS, JavaScript, Angular, ReactJS (Basic), ASP.NET Core, Entity Framework, Python.

**Cloud & Infrastructure:** AWS, Azure, C2, S3, Lambda, API Gateway, RDS (SQL Server, PostgreSQL), DynamoDB, IAM, CloudFormation, AWS Fargate, Azure Functions, App Services, AKS (Azure Kubernetes Service), Azure Service Bus, Docker, Kubernetes, Linux.

**DevOps & CI/CD:** AWS CodePipeline, CodeBuild, CodeDeploy, Azure DevOps, GitHub Actions, Terraform, AWS CloudFormation, ARM Templates, Git, GitHub, GitLab.

**Security & Compliance:** IAM, AWS KMS, Azure AD, Role-Based Access Control (RBAC), Multi-Factor Authentication (MFA), RESTful Web API, OAuth 2.0, JWT Authentication, GraphQL, Checkmarx, SonarQube, OWASP Best Practices, HIPAA, PCI-DSS, SOC 2.

**Database & Performance Optimization:** SQL Server (AWS RDS, Azure SQL), PostgreSQL, DynamoDB, Azure CosmosDB, Indexing, Stored Procedures, Query Optimization.

**Business Intelligence & Analytics:** Power BI, Tableau.

**Agile & Collaboration:** Agile, Scrum, Jira, Confluence, TDD (Moq, NUnit, xUnit), Unit Testing, Peer Code Reviews.

**Other Expertise:** Secure Banking Transactions, Fraud Detection, Healthcare Data Processing, Financial Analytics Dashboards, Third-Party Payment Gateway Integration.

### WORK EXPERIENCE

#### .NET Developer (Banking & Finance)

**Tata Consultancy Services (TCS) | USA | Aug 2023 – Present**

- Developed and maintained a high-traffic enterprise web application for a healthcare client using C#, ASP.NET Core, MVC, and WCF, improving system response time by 40%.
- Led the migration of a legacy on-prem .NET application to AWS, utilizing EC2, S3, RDS (SQL Server), and Lambda, reducing infrastructure costs by \$60K annually and improving scalability.
- Developed and optimized RESTful APIs and SOAP services, handling over 2M API calls per month, integrating with Salesforce and third-party healthcare providers using AWS API Gateway and Lambda.
- Designed and implemented a microservices-based architecture using .NET Core, Docker, Kubernetes (EKS), and AWS Fargate, improving application scalability by 60% and ensuring 99.99% uptime.
- Automated CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy, reducing deployment time from 3 hours to 12 minutes and increasing release frequency by 30%.
- Optimized SQL Server (AWS RDS) database queries and indexing, improving query execution time by 50%, reducing latency for customer transactions.
- Implemented IAM role-based access control, AWS KMS encryption, and JWT/OAuth authentication, reducing security vulnerabilities by 80% and ensuring compliance with HIPAA and Checkmarx security policies.
- Integrated AWS CloudWatch, X-Ray, and SNS for real-time monitoring, reducing system downtime incidents by 70%, ensuring proactive resolution.
- Conducted 90+ code reviews, mentored 5+ junior developers, and collaborated with cross-functional teams in an Agile environment, reducing technical debt by 40%.

#### .NET Developer (Healthcare)

**Version1 | India | March 2020 – July 2022**

- Developed secure enterprise applications for finance, investment, and insurance sectors using .NET Core, ASP.NET MVC, and C#.
- Built secure APIs for banking transactions, handling 2000+ of daily transactions, reducing API latency by 35% using OAuth 2.0, JWT authentication, and Azure API Management.

- Designed high-performance databases, optimizing SQL Server queries, reducing data retrieval time by 40%.
- Led Azure Cloud adoption, deploying services via Azure Functions, App Services, Blob Storage, reducing operational costs by 20%.
- Migrated monolithic finance applications to microservices using Docker & Kubernetes (AKS), increasing scalability by 60%.
- Automated CI/CD pipelines using Azure DevOps, Terraform, and GitHub Actions, reducing deployment failures by 50%.
- Ensured PCI-DSS & SOC 2 compliance, integrating SonarQube, Checkmarx, and security best practices, reducing security risks by 80%.
- Implemented real-time transaction monitoring using Azure Service Bus & Application Insights, reducing payment processing failures by 30%.
- Worked in Agile teams, leading daily stand-ups, sprint planning, and backlog refinements, delivering features with 99% accuracy.

#### **.NET developer (Telecommunications)**

**Magna Infotech** | Bangalore, India | July 2018 – Feb 2020

- Developed and maintained enterprise and financial applications using .NET Core, ASP.NET MVC, and C#, enhancing system efficiency by 30%.
- Designed and optimized RESTful APIs with OAuth 2.0 and JWT authentication, ensuring secure communication and data integrity.
- Implemented a secure financial transaction processing system, handling 240+ transactions daily, reducing transaction failures by 25%.
- Migrated monolithic applications to microservices, leveraging Docker, Kubernetes (AKS), and Azure Functions, improving scalability by 60%.
- Optimized SQL Server performance, reducing query execution time by 40% through indexing, query tuning, and stored procedures.
- Integrated third-party payment gateways (Razorpay, PayU) for financial applications, ensuring PCI-DSS compliance and reducing API latency by 35%.
- Automated CI/CD pipelines using Azure DevOps, Terraform, and GitHub Actions, reducing deployment failures by 40%.
- Deployed applications on Azure Cloud, reducing operational costs by 20% and achieving 99.9% uptime.
- Developed a dashboard for financial analytics, integrating Angular-based UI components with backend APIs, enhancing real-time data visibility.
- Troubleshoot production issues, reducing downtime by 40% through proactive monitoring and debugging.
- Collaborated in Agile teams, leading code reviews, sprint planning, and backlog grooming, ensuring timely delivery of features with 99% accuracy.

#### **EDUCATION**

**University Of South Dakota**

*Masters in computer science*  
2024

**Vermillion, SD**

*Aug 2022- Aug*

#### **PROJECTS**

##### **Healthcare Appointment System**

**Role:** Full Stack Developer (**Golang, Kubernetes, Docker, AWS, Angular**)

- Developed a Golang-based RESTful API to manage patient records, doctor profiles, and appointment scheduling, ensuring secure and efficient data handling.
- Built an Angular frontend with dynamic components for patient registration, doctor management, and scheduling, improving user experience.
- Deployed and orchestrated the application using Docker & Kubernetes on AWS, ensuring scalability, high availability, and cloud efficiency.

##### **Restaurant Management System**

**Role:** Full Stack Developer (**Golang, Angular, WebSockets, MongoDB**)

- Developed a full-stack restaurant management system using Golang (backend) and Angular (frontend) to streamline restaurant operations.
- Built a RESTful API in Golang to manage menu items, orders, and customer information, ensuring efficient data handling.
- Integrated WebSockets for real-time order updates and used MongoDB for scalable data storage, improving system responsiveness.