# AKHIL VANAPARTHI

akhilvanaparthi1104@gmail.com | **Tel: +1(737)-701-8567|TX**

## SUMMARY:

- Experience as a Software Engineer, over 4+ years specializing as a .NET Developer and 1+ year in broader Software Development
- Proficient in developing and maintaining Java-based applications, utilizing core concepts like OOP, data structures, and algorithms. Experience with frameworks such as Spring and Hibernate, as well as database integration (SQL, JDBC). Strong understanding of version control (Git) and software development best practices, with a focus on writing clean, efficient, and scalable code.
- Advanced proficiency in C# and the .NET ecosystem, including ASP.NET Core, WCF, WPF, MVC, Web API, Blazor, Razor, WinForms, ADO.NET, and Entity Framework for scalable, high-performance enterprise applications.
- Extensive experience architecting and deploying cloud-native solutions using AWS (EC2, S3, RDS) and Azure (API Management, Functions), ensuring scalability, resilience, and high availability in cloud environments.
- Expertise in designing and implementing micro services and RESTful APIs, leveraging API Gateway, OAuth 2.0, and JSON Web Tokens (JWT) for secure, distributed systems.
- Strong background in relational database management with SQL Server, Oracle, MySQL, and MS Access, along with deep knowledge in ETL processes, data modeling, and advanced SQL query optimization for data-intensive applications.
- Hands-on experience with DevOps practices using Jenkins, Git, GitHub, Bitbucket, Docker, Kubernetes, and Terraform, enabling continuous integration (CI) and continuous deployment (CD) pipelines and containerized application orchestration.
- Extensive use of Agile Scrum methodologies, with hands-on experience in Test-Driven Development (TDD) and integration of unit tests using NUnit, xUnit, and Mocking frameworks for continuous delivery of high-quality software.
- Expertise in implementing Elastic search for real-time full-text search, data indexing, and analytics in high-performance, high-traffic applications.

## SKILLS:

- **Languages:** Core Java, J2EE, SQL, XML, HTML, JavaScript, JQuery, CSS.
- **APIs:** Collections, Serialization, String, Swing, JDBC, Servlet, JSP, Criteria, JNDI, SOAP, JPA.
- **C# .NET Technologies:** ASP.NET, WCF, WPF, MVC, Web API, Blazor, Razor, WinForms, Entity Framework (first project only).
- **Web Technologies:** Angular, React, UI, Bootstrap, HTML, XML, CSS.
- **Testing Frameworks:** NUnit, xUnit, Unit Tests.
- **Cloud Services:** AWS, Azure (APIs).
- **CI/CD Tools:** Jenkins, Git, GitHub, Bitbucket, Docker.
- **RDBMS:** MS SQL Server, Oracle MySQL, MS Access.
- **Database Management:** SQL, SQL Server Integration Services, SQL Server Analysis Services.
- **Server Technologies:** ASP.NET, Web Services, WCF.
- **API Development:** Azure APIs, RESTful APIs.
- **Methodologies:** Agile Scrum, TDD, Waterfall.
- **Design Tools:** UML (static), Visio, MS-Project.

## EXPERIENCE:

### Wawanesa Group
Jan 2023 - Current
**Software Developer**

- Develop, test, and maintain Java applications using J2EE technologies such as JSP, Servlets, and JDBC, ensuring robust and scalable solutions.
- Centralized environment variable management by migrating from individual configuration files to a unified database table, streamlining the configuration process across multiple environments.
- Utilized IntelliJ IDEA for efficient coding and deployed applications on Tomcat servers, ensuring robust performance in production environments.
- Managed version control using Git enabling smooth collaboration and efficient tracking of code changes across development teams.
- Implemented the Data Access Object pattern to decouple data operations, enhancing modularity and simplifying database interactions for future maintenance.
- Built and enhanced Java-based web solutions using Spring MVC and Spring Boot, improving performance, scalability, and flexibility to meet changing business requirements.
- Automated AWS cloud infrastructure provisioning and management, utilizing services like EC2, S3, RDS, and IAM to enable scalable and cost-effective deployments.
- Fostered team collaboration by managing source code and version control with GitHub and Git, ensuring a clean and organized codebase.
- Enhanced system performance by 15% through process optimization within the Java architecture, leading to improved user experience and faster processing times.
- Integrated Spring Boot with external APIs and microservices, ensuring seamless data exchange and integration with third-party systems.
- Applied best practices in cloud architecture, security protocols, and deployment strategies to improve the scalability, reliability, and security of applications.
- Implement business logic and data access layers using frameworks like Spring and Hibernate, and integrate with databases using SQL and ORM techniques.

**.Net  Software Developer**

- Design, develop, and maintain web and desktop applications using .NET technologies (C#, ASP.NET, .NET Core), implementing advanced OOP principles, RESTful APIs, and efficient data access with Entity Framework and LINQ.
- Led the upgrade of a legacy system to a modern architecture using Spring and Hibernate, enhancing performance and maintainability.
- Actively participated in Scrum-based Agile development, collaborating with cross-functional teams to ensure iterative progress and timely feedback.
- Implemented the MVC pattern and applied design patterns like DTO, Service Locator, and Front Controller to optimize system scalability and maintainability.
- Enhanced user experience by utilizing AJAX for asynchronous data processing, JavaScript for front-end interactivity, and CSS for consistent visual design.
- Strengthened server-side validation using the Struts framework, ensuring secure and accurate data handling throughout the application.
- Integrated Hibernate with Spring, leveraging Inversion of Control (IoC) for dependency injection and Aspect-Oriented Programming (AOP) for efficient transaction management.
- Optimized database interactions with complex Hibernate mappings, supporting one-to-one and one-to-many relationships for improved data consistency and retrieval speed.
- Authored comprehensive business and technical documentation, including UML diagrams (Use Case, Class, Sequence) to clearly communicate design and requirements.
- Reduced database query times by 20% through Hibernate query optimizations and caching strategies, significantly boosting performance.

## EDUCATION:

- **Master of Applied Computer Science** Northwest
  Missouri State University
- **Bachelor's in computer science**
  Jawaharlal Nehru Technological University, Hyderabad

## CERTIFICATION:

- **AWS Associate Certificate**