

# AKHIL VANAPARTHI

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## SUMMARY

- Results-driven Software Engineer (.NET Developer) with 4+ years of experience in designing, developing, and optimizing enterprise applications using ASP.NET Core, ASP.NET MVC, Web API, WCF, WPF, Blazor, Razor, Entity Framework, and LINQ.
- Proficient in multiple programming languages, including Core Java, J2EE, C#, .NET, SQL, Python, R, XML, JavaScript, TypeScript, and jQuery, ensuring robust and scalable solutions.
- Developed interactive and responsive web applications with Angular, React, Bootstrap, HTML5, CSS3, AJAX, and XML, enhancing UI/UX and front-end functionality.
- Designed and integrated APIs and frameworks to enable seamless system communication, including SOAP, RESTful APIs, JPA, GraphQL, Collections, JDBC, Servlet, JSP, and JNDI.
- Built and fine-tuned deep learning models using TensorFlow, PyTorch, and Scikit-learn for predictive analytics and automation, improving decision-making processes.
- Implemented image recognition, object detection, and facial recognition using OpenCV and CNN architectures (ResNet, YOLO), enhancing security and automation solutions.
- Developed and optimized databases, working with MS SQL Server, Oracle, MySQL, PostgreSQL, MS Access, and MongoDB, ensuring efficient data storage, retrieval, and management.
- Streamlined CI/CD pipelines and DevOps workflows using Jenkins, Git, GitHub, Bitbucket, GitLab, Docker, Kubernetes, and Terraform to enhance software delivery and automation.
- Executed rigorous testing strategies with NUnit, xUnit, PyTest, Selenium, JUnit, Jasmine, and Mocha, ensuring software quality, security, and performance.
- Worked in Agile and TDD environments, utilizing Scrum, Kanban, and Waterfall methodologies, while documenting workflows with UML, Visio, MS Project, Confluence, and Jira for efficient project execution.

## TECHNICAL SKILLS

- **Programming Languages:** Core Java, J2EE, C#, .NET, SQL, Python, R, XML, HTML, JavaScript (ES6+), TypeScript, JQuery, CSS
- **.NET Technologies:** ASP.NET Core, ASP.NET MVC, Web API, WCF, WPF, Blazor, Razor, WinForms, Entity Framework, LINQ
- **Web & UI Technologies:** Angular, React, Bootstrap, HTML5, CSS3, XML, JavaScript, TypeScript, AJAX
- **APIs & Frameworks:** Collections, Serialization, String, Swing, JDBC, Servlet, JSP, Criteria, JNDI, SOAP, RESTful APIs, JPA, GraphQL
- **Cloud & DevOps:** Microsoft Azure (Azure Functions, Azure API Management, Azure DevOps, Azure Cognitive Services), AWS (EC2, S3, Lambda, SageMaker)
- **Machine Learning & AI:** Scikit-learn, XGBoost, TensorFlow, PyTorch, Keras, OpenCV, NLTK, SpaCy, Pandas, NumPy, Matplotlib, Seaborn, BERT, Deep Learning, Predictive Analytics, NLP, OCR (Tesseract)
- **Computer Vision & Image Processing:** OpenCV, CNN (ResNet, YOLO), Object Detection, Image Recognition, Facial Recognition
- **Big Data & Data Processing:** Spark, Hadoop, SQL Server Integration Services (SSIS), SQL Server Analysis Services (SSAS)
- **Business Intelligence & Data Visualization:** Power BI, Tableau, Business Intelligence Dashboards, AI-powered Predictive Analytics
- **CI/CD & Version Control:** Jenkins, Git, GitHub, Bitbucket, GitLab, Docker, Kubernetes, Terraform
- **Databases & RDBMS:** MS SQL Server, Oracle, MySQL, PostgreSQL, MS Access, MongoDB
- **Testing Frameworks:** NUnit, xUnit, PyTest, Selenium, JUnit, Jasmine, Mocha
- **Software Development Methodologies:** Agile (Scrum, Kanban), Test-Driven Development (TDD), Waterfall
- **Design & Documentation Tools:** UML, Visio, MS Project, Confluence, Jira

## EXPERIENCE

### Wawanesa Group

Jan 2023 - Current

#### Software Developer

- Developed and maintained enterprise applications using Java (J2EE, Spring Boot, Hibernate), improving system scalability by 30%.
- Designed and optimized microservices with Spring Boot, RESTful APIs, GraphQL, OAuth 2.0, and JWT, enhancing system flexibility and third-party integrations by 20%.
- Built AI/ML models using TensorFlow, PyTorch, Scikit-learn, OpenCV, and NLP (SpaCy, BERT, NLTK), enabling real-time fraud detection, sentiment analysis, and automation with accuracy improvements of 25%.
- Optimized ML model deployment on AWS SageMaker and Lambda, reducing inference latency by 40% and improving prediction performance.
- Automated cloud infrastructure provisioning with AWS (EC2, S3, RDS, IAM, Terraform), cutting deployment time by 50%.
- Developed dynamic, responsive web applications using Angular, React, TypeScript, Bootstrap, HTML5, CSS3, and JavaScript (ES6+), improving UI/UX performance by 35%.
- Implemented and optimized database solutions with SQL Server, PostgreSQL, MySQL, MongoDB, reducing query execution time by 35%.
- Enhanced CI/CD pipelines using Jenkins, GitHub, Bitbucket, GitLab, Docker, and Kubernetes, streamlining deployment cycles and reducing downtime by 30%.
- Designed and implemented big data pipelines using Spark, Hadoop, SSIS, and SSAS, accelerating data processing efficiency by 40% for predictive analytics.

- Developed and executed automated testing with Selenium, NUnit, xUnit, PyTest, and JUnit, increasing test coverage by 45% and reducing manual testing efforts.

## Coforge

Jun 2019 - Jul 2021

### .Net Software Developer

- Developed and optimized web applications using .NET (ASP.NET Core, C#), RESTful APIs, and Microservices, improving system performance by 35% and reducing latency by 20%.
- Automated cloud infrastructure provisioning using Azure (Azure Functions, API Management, DevOps), decreasing deployment time by 50%.
- Implemented predictive analytics dashboards with Power BI and AI algorithms, improving market trend forecasting accuracy by 40%.
- Optimized database queries and ETL processes for SQL Server, PostgreSQL, and MySQL, reducing query execution time by 35% and enhancing data processing efficiency.
- Developed front-end components using Angular, React, TypeScript, JavaScript (ES6+), and Bootstrap, improving UI responsiveness by 45%.
- Enhanced security measures by integrating OAuth 2.0, JWT authentication, and role-based access control (RBAC), strengthening application security compliance.
- Implemented CI/CD pipelines using Jenkins, GitLab, Docker, Kubernetes, and Terraform, accelerating release cycles by 60%.
- Authored comprehensive documentation, including UML diagrams (Use Case, Class, Sequence), API specifications, and system architecture, improving team onboarding efficiency by 40%.

## EDUCATION

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

## CERTIFICATION:

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- **AWS Associate Certificate**