AKHILA BODDU

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Professional Summary

- Engineered and deployed enterprise-grade web applications using **.NET Framework**, **.NET Core**, **C#**, and **ASP.NET Core**, leveraging **5+ years** of experience in software development to deliver **10+ projects** from **design** to production.
- Led full **SDLC** across **Agile** and **Waterfall** methodologies, overseeing requirements, documentation, development, testing, and maintenance, ensuring on-time delivery of 10+ projects with minimal post-deployment issues.
- Implemented **advanced C# features** (up to **C# 10.0**), including **pattern matching**, **record types**, and **lambda expressions**, resulting in **25% faster backend development** and improved application efficiency and readability.
- Optimized performance by applying **Multithreading** and **Task Parallel Library (TPL)** for **asynchronous programming** and **concurrent data structures**, resulting in a **30% reduction** in server-side processing time and improved scalability.
- Designed and applied industry-standard design patterns (e.g., Repository, Unit of Work, Factory, Strategy) and **UML diagrams** to model architecture, improving modularity, scalability, and maintainability, leading to 40% upgrades.
- Developed **secure and scalable APIs** using **ASP.NET Core Web API**, **Minimal APIs**, and **ASP.NET MVC**, ensuring seamless integration with enterprise systems, achieving **99.9% reliability** in real-time data communication.
- Led **cloud-based development** using **Microsoft Azure** services, including **API Gateway**, **Functions**, **Blob Storage**, and **Azure DevOps pipelines**, improving system scalability by **40%** while reducing manual deployment errors by **25%**.
- Built **dynamic front-end applications** using **Angular**, **React.js**, **Vue.js**, and **TypeScript**, optimizing **state management** and **routing** to enhance UX, leading to **20% faster load times** and a **15% increase** in user engagement.
- Enhanced database performance by optimizing interactions with **SQL Server, PostgreSQL,** and **NoSQL databases (MongoDB, Cassandra)**, applying advanced indexing, normalization, and custom queries, reducing run time by 25%.
- Developed **automated unit tests** using **XUnit**, **MSTest**, and **NUnit**, achieving **95% test coverage**, integrating **Moq** for dependency mocking, and ensuring **stable releases** with fewer than **5% defects** in post-deployment phases.

Education

University of Central Missouri   Aug 2022 – Dec 2023
Master of Science in Computer Science, GPA: 3.4/4.0   *Warrensburg, MO*

Technical Skills

Languages & Frameworks: C#, .NET Core, ASP.NET MVC, ASP.NET Web API, ASP.NET Core, Node.js, Angular (10+), React.js, Vue.js, TypeScript
Frontend: HTML5, CSS3, JavaScript, Bootstrap, jQuery, Ajax
Databases & ORMs: SQL Server, PostgreSQL, MongoDB, Cassandra, Redis, T-SQL, PL/SQL, Entity Framework Core, LINQ, Dapper
Cloud & DevOps: Microsoft Azure (App Services, Blob Storage, Functions, API Gateway, Redis), AWS (EC2, S3, Lambda), Azure DevOps, YAML, Docker, Kubernetes (AKS)
Security & Authentication: OAuth2, JWT, OpenID Connect, Azure AD, SAML, SSL
Architecture & Design Patterns: Microservices, Onion Architecture, MVC, N-Tier, Repository, Unit of Work, Factory, Strategy
Messaging & Integration: RabbitMQ, MSMQ, REST, SOAP, HL7, Swagger, Postman, SOAP UI
Testing & Tools: XUnit, MSTest, NUnit, Selenium, Karma, Jasmine, Jest, Mocha, Cucumber, Visual Studio, SonarQube, Fiddler, Git, TFS, SVN

Professional Experience

Fifth Third Bank   Mar 2023 – Present
.NET Full Stack Developer, Cincinnati, OH

- Designed and secured customer account modules using **ASP.NET Core Web API**, integrating **JWT** and **OAuth2** via **Azure Active Directory**, effectively reducing unauthorized access incidents by **30%** across critical banking endpoints.
- Engineered **25+ dynamic, reusable UI components** in **Angular 14** and **TypeScript**, significantly enhancing navigation speed by **40%** through lazy loading, advanced routing, and interactive **Chart.js** dashboards for transaction analytics.
- Modernized legacy monolithic systems into **containerized .NET 6 microservices** using **Docker** and **Azure Kubernetes Service (AKS)**, successfully decreasing deployment time by **60%** and improving system uptime to **99.9%**.
- Integrated and managed **Azure API Gateway** to streamline access to **15+ microservices**, enforcing rate limiting, API versioning, and **OAuth security** for internal and third-party consumers, increasing API reliability and maintainability.
- Orchestrated asynchronous, event-driven workflows via **RabbitMQ**, enabling real-time fraud alerts and customer notifications, which reduced latency and improved responsiveness by **45%** during peak transaction hours.
- Automated end-to-end **CI/CD pipelines** using **Azure DevOps (YAML)**, efficiently cutting manual deployment efforts by **80%** and increasing release velocity across development, QA, and production environments.

- Optimized **100K+ daily transactions** by developing high-performance **PL/SQL** procedures, strategic indexing, and using **Entity Framework Core** with compiled **LINQ queries**, accelerating query execution by **35%**.
- Implemented enterprise-grade **RBAC policies** with **ASP.NET Identity**, securing critical operations (e.g., wire transfers, PII access) and ensuring full compliance with **ISO 27001**, audit trails, and internal data protection standards.
- Deployed **scalable, cost-efficient Azure Functions** to handle 50+ asynchronous tasks daily (e.g., document archiving, SMS OTPs via Twilio, emails via SendGrid), reducing backend processing costs by **25%** using serverless infrastructure.
- Led code quality and accessibility initiatives, integrating **SonarQube**, **Azure Application Insights**, and **WCAG 2.1-compliant** UI designs while mentoring 4 junior developers, boosting sprint velocity by **20%** in Agile environments.
- Built a secure document upload flow using **IFormFile, Azure Blob Storage,** and **SAS tokens**, enabling monthly encrypted access to 10K+ customer files.

Cleveland Clinic   **Dec 2020 – Jul 2022**
.NET Developer, Hyderabad
- Engineered robust, **scalable**, **HIPAA-compliant** healthcare systems using **ASP.NET Core MVC** and **Web API**, implementing secure **JWT authentication** and protecting access to over **10,000** electronic health records (**EHRs**).
- Developed dynamic, interactive clinician and patient dashboards with **Angular 11**, integrating **RESTful APIs** for real-time data access to appointments, lab results, and vitals, enhancing operational efficiency by 30%.
- Integrated modular, interoperable **HL7-based hospital subsystems** using **Azure Logic Apps** and **API Gateway**, streamlining interdepartmental **clinical data exchange** with **99.8% message delivery accuracy**.
- Architected **scalable**, **fault-tolerant microservices** for **admissions** and **inventory modules** using **.NET Core**, deployed via **Azure App Services** with **auto-scaling**, achieving **99.9% uptime** and improved **fault isolation**.
- Optimized complex, high-volume, **mission-critical PL/SQL stored procedures** in **SQL Server** for **patient scheduling** and **medication audits**, reducing **execution time** by **40%** and enhancing **query performance**.
- Implemented secure, compliant **OAuth2** and **OpenID Connect** authentication with **Azure AD B2C**, enabling scalable and compliant **user access** for **2,500+ clinicians** while reducing **identity management overhead**.
- Built an automated, efficient, **modular PDF reporting engine** using **iTextSharp**, streamlining the delivery of **discharge summaries** and **prescriptions**, with **500+ documents generated weekly** via the **patient portal**.
- Established resilient, asynchronous **RabbitMQ-based event-driven architecture** for workflows like **lab alerts** and **billing**, increasing **decoupling** and reducing **processing latency** by **35%**.
- Designed and deployed insightful, real-time **SSRS-powered analytics dashboards** drawing from **OLAP** and **transactional databases**, improving **clinical reporting accuracy** and **accessibility**.
- Led secure, end-to-end **CI/CD initiatives** using **Azure DevOps** with integrated **XUnit test suites** and **Moq-based mocks**, maintaining over **85% test coverage** and enabling automated, reliable **deployments**.

AT&T   **Jan 2019 – Dec 2020**
.NET Developer, Hyderabad
- Engineered internal **customer management tools** using **ASP.NET MVC** and **SQL Server**, consolidating **account lookup**, **order history**, and **ticket management** into a unified platform, increasing operational efficiency by **20%**.
- Enhanced customer support portals by integrating **React.js** components and **API endpoints** for **real-time ticket updates**, reducing manual effort and saving **15+ hours per week** for customer service agents.
- Refactored legacy monolithic code into **modular components** using **N-Tier architecture**, implementing the **Repository Pattern** and **Dependency Injection**, boosting system maintainability by **40%** and reducing technical debt.
- Developed **RESTful services** with **ASP.NET Web API**, streamlining communication between **billing**, **CRM**, and **provisioning systems** via **JSON-based endpoints**, improving data flow and system integration.
- Performed data migrations using **SSIS packages**, consolidating **customer** and **billing data** across regions, minimizing **data inconsistencies** and **duplicates** by **30%**, enhancing reporting accuracy.
- Optimized complex **PL/SQL queries**, views, and triggers for **billing anomaly detection** and enforcing **business rules**, improving query performance and reducing errors by **25%**.
- Leveraged **RabbitMQ** for **asynchronous message queuing**, offloading long-running processes like **report generation** and third-party synchronization, improving **system responsiveness,** and reducing latency by **35%**.
- Implemented secure **OAuth2** and **JWT authentication** for user session management, ensuring compliance with industry standards and safeguarding sensitive data for both **internal staff** and **contractors**.
- Automated **API testing** and test data setup using **Postman**, enabling **full regression cycles**, significantly reducing manual effort, and enhancing overall QA efficiency by **30%**.
- Collaborated with **third-party vendors** to integrate **APIs** for **identity verification**, **address validation**, and **payment processing**, streamlining workflows and improving customer processing speed by **25%**.

Certifications
- [AWS Cloud Quest: Cloud Practitioner](#)
- [Getting Started with AWS Storage](#)
- [AWS Certified Solutions Architect – Associate](#)
- [AWS Academy Cloud Security Foundations](#)