

Name: SAIKUMAR MADDELA
Role: Sr. .Net Full Stack Developer
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PROFESSIONAL SUMMARY

- Accomplished Sr. .NET Full Stack Developer with over 11+ years of experience in designing, developing, and deploying enterprise-grade applications across **healthcare, finance, retail, and telecom domains**. Adept at building scalable back-end solutions using **.NET Core/.NET 8, C#, and microservices** while delivering responsive and dynamic **front-end applications with React.js, TypeScript, and Angular**.
- Proficient in **AWS & Azure cloud-native solutions, CI/CD automation, containerization (Docker/Kubernetes), and DevOps practices** to enhance performance, scalability, and security. Skilled in **SQL/NoSQL databases, API integrations, identity management, and event-driven architectures**, with proven expertise in **HIPAA, SOX, and financial compliance environments**. Strong background in **Agile/Scrum methodologies**, stakeholder collaboration, and modernizing legacy systems into cloud-first, AI/ML-enabled architectures.
- **Designed and deployed enterprise-grade .NET Core/.NET 8 APIs** for healthcare and financial systems, ensuring compliance with **HIPAA, security standards, and industry best practices**.
- **Developed responsive front-end applications** using **React.js, TypeScript, Redux Toolkit, React Query, and Angular**, improving customer engagement and provider/patient experiences.
- **Built microservices and event-driven architectures** leveraging **AWS SNS/SQS, Kafka, and Azure Service Bus**, ensuring reliability and high scalability across enterprise systems.
- **Optimized SQL Server and PostgreSQL databases**, improving high-volume transaction processing and data analytics performance through indexing and stored procedures.
- **Adopted NoSQL databases (DynamoDB, MongoDB)** to support real-time eligibility, enrollment, and financial transaction data with low-latency retrieval.
- **Integrated OAuth2, OpenID Connect, AWS Cognito, and Identity Server**, implementing secure authentication/authorization for healthcare and financial systems.
- **Migrated legacy ASP.NET MVC and .NET Framework apps** to **.NET 7/8 with React**, modernizing performance, maintainability, and scalability.
- **Leveraged AWS cloud-native services** (Lambda, ECS, API Gateway, S3, CloudFormation, and CodePipeline) for **cost optimization, high availability, and automated deployments**.
- **Automated CI/CD pipelines** using **GitHub Actions, Azure DevOps, AWS CodeBuild, and Terraform**, reducing release cycle times and deployment errors.
- **Implemented containerization and orchestration** with **Docker, Kubernetes (EKS), and ECS**, streamlining deployments and improving environment consistency.
- **Enhanced observability and monitoring** with **AWS CloudWatch, ELK Stack, X-Ray, and Application Insights**, enabling predictive monitoring and reduced downtime.
- **Developed RESTful and GraphQL APIs** for third-party integrations with healthcare vendors, payment gateways, and analytics providers.
- **Collaborated with cross-functional teams** including UI/UX designers, product owners, and data engineers to translate requirements into **secure, scalable applications**.
- **Improved front-end performance** using **custom hooks, caching strategies, React Query, and Tailwind CSS**, ensuring fast and seamless workflows.
- **Led Agile ceremonies** such as sprint planning, backlog refinement, and reviews, aligning development deliverables with evolving business priorities.
- **Built automated test frameworks** (xUnit, NUnit, Jest, Cypress, React Testing Library) ensuring high-quality applications across front-end and back-end.
- **Integrated AI/ML and MLOps practices** for predictive healthcare cost modeling, patient outcomes analysis, and automated claim documentation workflows.
- **Developed Python-based utilities** for data validation, ETL processing, and automation, supporting analytics and cross-team operations.
- **Ensured compliance and governance** in healthcare and financial domains, implementing **secure APIs, audit trails, and industry-standard encryption**.

- **Mentored junior developers and conducted code reviews**, fostering knowledge sharing and maintaining clean, scalable, and maintainable architectures.

TECHNICAL SKILLS

Languages	C#, .NET 8/.NET Core, TypeScript, JavaScript (ES6+), Python, SQL, HTML5, CSS3
Frontend	React.js, Angular, Redux Toolkit, React Query, React Testing Library, Jest, Cypress, Tailwind CSS
Backend & APIs	ASP.NET Core Web API, RESTful APIs, GraphQL, gRPC, Microservices, Entity Framework Core, Dapper
Cloud & DevOps	AWS: Lambda, ECS, EKS, S3, SNS/SQS, API Gateway, CloudFormation, CodeBuild/CodePipeline, Cognito, DynamoDB, CloudWatch, X-Ray Azure: Azure Service Bus, Application Insights, DevOps CI/CD: GitHub Actions, Azure DevOps Pipelines, Jenkins IaC: Terraform, AWS CloudFormation Containerization: Docker, Kubernetes
Databases	SQL: Microsoft SQL Server, PostgreSQL (Indexing, Stored Procedures) NoSQL: DynamoDB, MongoDB
Architecture & Design	Microservices, Event-Driven Architecture, Serverless, Domain-Driven Design (DDD), SOLID Principles, Legacy Modernization, AI/ML Integration
Messaging & Integration	Kafka, AWS SNS/SQS, Azure Service Bus, RabbitMQ
Security & Identity	OAuth2, OpenID Connect (OIDC), Identity Server, AWS Cognito, HIPAA Compliance, SOX Compliance, Industry-Standard Encryption, Audit Trails
Testing	xUnit, NUnit, Jest, Cypress, React Testing Library, Moq, Automated Test Frameworks
Methods & Tools	Agile, Scrum, Git, Jira, Confluence, MLOps, ETL Processes

EDUCATION

- Bachelors in computer science at SRM University Aug 2011 to May 2015

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate
- AWS Certified Developer – Associate

WORK EXPERIENCE

Client: Elevance Health, Atlanta, GA

Nov 2024 - Present

Role: Sr. .NET Full Stack Developer

Responsibilities:

- Designed, developed, and deployed **.NET Core and .NET 8 APIs** to support large-scale healthcare plan applications, ensuring scalability, security, and compliance with HIPAA and industry standards.
- Implemented dynamic front-end interfaces using **React.js with TypeScript**, enabling modular, reusable components and improving member and provider user experience.
- Leveraged **AWS cloud-native services (Lambda, S3, ECS, API Gateway, and CloudFormation)** for hosting and scaling applications with improved fault tolerance and cost efficiency.
- Automated software delivery pipelines with **GitHub Actions, AWS CodePipeline, and CodeBuild**, achieving faster release cycles and reducing manual errors.
- Built **RESTful and GraphQL APIs** for secure integration with third-party providers, insurance vendors, and healthcare analytics systems.
- Optimized relational data storage with **SQL Server and PostgreSQL**, ensuring reliable transaction processing and efficient claims data retrieval.
- Adopted **NoSQL solutions such as DynamoDB and MongoDB** to support real-time data flows and fast access to patient eligibility and enrollment records.
- Integrated modern identity management using **OAuth 2.0, OpenID Connect, and AWS Cognito** to strengthen application security for patients and healthcare staff.

- Modernized legacy applications by migrating from **ASP.NET MVC to .NET 8 with React**, resulting in improved performance and maintainability across applications.
- Designed resilient **microservices and event-driven architectures** with **AWS SNS/SQS and Kafka**, ensuring high scalability and system reliability.
- Enhanced observability with **AWS CloudWatch, ELK Stack, and Application Insights**, enabling predictive monitoring and minimizing production downtime.
- Applied **Domain-Driven Design (DDD) and Clean Architecture** to enforce consistent design principles and reduce long-term system complexity.
- Deployed containerized workloads using **Docker and Kubernetes (EKS)**, streamlining deployments and improving healthcare plan service scalability.
- Enhanced front-end performance using **React Query, Redux Toolkit, and custom hooks**, improving responsiveness in complex healthcare workflows.
- Conducted agile ceremonies, backlog refinement, and sprint reviews under **Agile/Scrum methodology**, aligning development efforts with evolving business priorities.
- Improved system reliability through automated testing frameworks such as **xUnit, NUnit, Jest, and React Testing Library**, ensuring consistent quality across the stack.
- Collaborated with data engineering teams to implement ETL pipelines and real-time processing via **AWS Glue and Kinesis**, ensuring accurate reporting for healthcare plans.
- Introduced **AI/ML-driven analytics** and integrated **MLOps practices** for predictive healthcare cost modeling, ensuring accurate insights into claims and patient outcomes.
- Explored **GenAI solutions** for automating healthcare member inquiries and claim documentation, enhancing patient support and operational efficiency.
- Designed **Python-based utilities** for data validation, automation scripts, and healthcare analytics, supporting cross-team initiatives with flexible tooling.
- Delivered robust infrastructure setups using **Terraform and AWS CDK**, enabling repeatable deployments and consistent environment configurations.
- Partnered with stakeholders to ensure that business requirements for healthcare plan applications were translated into secure, scalable, and compliant technical solutions.

Client: Wintrust Financial Corp, Rosemont, IL

Jan 2022 - Oct 2024

Role: .NET Full Stack Developer

Responsibilities:

- Designed, developed, and deployed **scalable .NET Core APIs** to support financial transaction processing systems ensuring high performance and reliability.
- Built **React-based user interfaces** with reusable components, hooks, and state management libraries to enhance customer engagement and financial dashboards.
- Integrated **AWS services (Lambda, S3, API Gateway, DynamoDB, and CloudFormation)** into enterprise applications for cost optimization and cloud-native scalability.
- Implemented **microservices architecture** for financial services applications, ensuring modularity, fault tolerance, and easier maintainability.
- Collaborated with **UI/UX designers, business analysts, and product owners** to translate financial service requirements into technical solutions.
- Developed **secure RESTful APIs and GraphQL endpoints** for data-driven applications handling sensitive financial information.
- Conducted **end-to-end application testing (unit, integration, UAT)** to ensure system reliability across multiple environments.
- Migrated legacy .NET applications to **.NET 7 and cloud-based infrastructure**, enhancing application performance and maintainability.
- Optimized **SQL Server and PostgreSQL queries**, stored procedures, and indexing strategies to handle high-volume financial datasets.
- Designed and implemented **CI/CD pipelines with GitHub Actions and AWS CodePipeline**, reducing deployment errors and ensuring faster releases.
- Developed **responsive web applications** with React, TypeScript, Redux, and Tailwind CSS to support cross-platform user experiences.
- Collaborated in an **Agile Scrum environment**, actively participating in sprint planning, backlog grooming, and sprint retrospectives.

- Utilized **AWS CloudWatch, X-Ray, and monitoring tools** to ensure uptime and observability of mission-critical financial applications.
- Maintained **strict security compliance (OAuth2, JWT, SSL/TLS)** for financial services applications to meet regulatory and governance standards.
- Implemented **event-driven architecture using AWS SNS/SQS** to streamline data processing workflows and enhance system reliability.
- Built **automated testing frameworks** using NUnit, Jest, and Cypress to validate application behavior across front-end and back-end layers.
- Collaborated with cross-functional teams to integrate **third-party APIs and payment gateways** ensuring seamless customer transactions.
- Actively participated in **code reviews, knowledge-sharing sessions, and mentorship**, promoting best practices within the development team.
- Documented **technical designs, workflows, and system architecture** for compliance, audit requirements, and knowledge transfer.
- Resolved **production issues with root cause analysis and quick fixes**, ensuring minimal downtime for business-critical applications.

Client: Lowe's, Mooresville, NC

Nov 2018 - Dec 2021

Role: Sr. .NET Developer

Responsibilities:

- Designed and developed **scalable .NET applications** to support state-wide environmental programs, ensuring high performance and maintainability.
- Collaborated with cross-functional teams to implement **ReactJS front-end interfaces**, providing a responsive and user-friendly experience for internal and public users.
- Leveraged **AWS services** including EC2, S3, Lambda, and RDS to deploy and manage cloud-based solutions for seamless data storage and processing.
- Developed and maintained **RESTful APIs and microservices architecture**, enabling secure and efficient communication between different application modules.
- Participated in the full **Software Development Life Cycle (SDLC)** including requirements gathering, design, development, testing, and deployment of web applications.
- Implemented **Entity Framework and SQL Server** database solutions with optimized queries, ensuring data integrity and high-performance operations.
- Applied **Agile and Scrum methodologies**, contributing to sprint planning, daily stand-ups, and delivering incremental updates to meet evolving project needs.
- Conducted code reviews and provided mentoring to junior developers, promoting **best coding practices** and standardization across the team.
- Integrated **third-party APIs and services** into the application ecosystem to enhance functionality and streamline workflows.
- Built **serverless applications** using **AWS Lambda** and integrated **API Gateway** for real-time environmental data reporting.
- Developed **unit and integration tests** using **xUnit and NUnit**, ensuring application reliability and minimizing production defects.
- Managed source control with **Git** and collaborated on **CI/CD pipelines** using Azure DevOps for automated build, test, and deployment processes.
- Utilized **React Hooks, Redux, and JavaScript ES6+** for state management and dynamic UI rendering, improving user interaction and performance.
- Implemented **security best practices** including OAuth2, JWT authentication, and role-based access control to protect sensitive environmental data.
- Optimized application performance using **caching strategies** and **asynchronous programming** in .NET and JavaScript.
- Created detailed **technical documentation** and user manuals to support maintenance, training, and future enhancements of the system.
- Coordinated with stakeholders to gather requirements and translate them into technical solutions that align with Missouri Department of Natural Resources' mission and standards.
- Researched and recommended emerging technologies such as **.NET Core, React, and AWS Cloud solutions**, ensuring modern, efficient, and maintainable application development.

Client: Cyient, India
Role: .NET Developer

Dec 2016 - July 2018

Responsibilities:

- Designed, developed, and deployed scalable applications using **.NET Framework / .NET Core**, ensuring high performance, reliability, and alignment with business requirements.
- Developed responsive front-end interfaces using **Angular** integrated with **.NET backend services**, enhancing user experience for enterprise applications.
- Implemented cloud-based solutions using **Microsoft Azure** services including **App Services, Azure Storage, and Azure SQL Database** for hosting, monitoring, and performance optimization.
- Built and consumed **RESTful Web APIs** and integrated **third-party APIs**, enabling seamless communication between distributed systems.
- Applied **Object-Oriented Programming (OOP)** principles, **design patterns**, and clean coding practices to develop maintainable and extensible applications.
- Managed database operations using **SQL Server**, writing **stored procedures, triggers, and complex queries** to ensure data integrity and optimized performance.
- Worked in **Agile/Scrum environments**, participating in **daily stand-ups, sprint planning, and retrospectives**, ensuring timely and efficient delivery.
- Migrated legacy applications to modern **Azure cloud-based architectures**, improving scalability, availability, and cost efficiency.
- Integrated **Entity Framework** and **LINQ** for efficient data access, optimizing query performance and reducing execution time.
- Designed and implemented secure authentication and authorization using **OAuth2, Identity Server, and Active Directory**, ensuring application security.
- Performed **unit testing and integration testing** using **NUnit** and **MS Test**, ensuring high-quality and reliable software deliverables.
- Automated build and deployment processes using **CI/CD pipelines** with **Azure DevOps**, improving release efficiency and consistency across environments.
- Implemented logging, monitoring, and post-production support using **Azure Application Insights**, while developing dynamic UI components with **Angular (TypeScript)** and collaborating with stakeholders to translate requirements into technical solutions.

Client: Tata Communications, India

Aug 2015 – Nov 2016

Role: .NET Developer

Responsibilities:

- Designed, developed, and implemented scalable web applications using **ASP.NET** and **C#**, ensuring high performance and reliability for enterprise systems.
- Built and maintained backend services using **C#**, supporting critical functionalities such as billing, provisioning, and customer management with accurate data processing.
- Collaborated with cross-functional teams to integrate applications with **SQL Server**, ensuring efficient data retrieval, secure transactions, and optimized query performance.
- Developed **WCF (Windows Communication Foundation)** services and APIs to enable seamless communication between internal systems and third-party applications.
- Enhanced web applications using **MVC architecture**, implementing responsive design and ensuring cross-browser compatibility for improved user experience.
- Utilized **LINQ, Entity Framework, and ADO.NET** for efficient data manipulation, improving performance and reducing manual coding effort.
- Participated in all phases of the **Software Development Life Cycle (SDLC)** including requirements gathering, analysis, design, development, testing, and deployment.
- Designed and optimized database components using **SQL Server**, including **stored procedures, functions, triggers**, and performance-tuned queries for handling large datasets.
- Developed dynamic user interfaces using **JavaScript, jQuery, and AJAX**, enhancing usability and reducing application response time.
- Implemented **Service-Oriented Architecture (SOA)** principles to build reusable and scalable services, minimizing redundancy across applications.
- Conducted **unit testing** using **NUnit** and **MSTest**, ensuring application quality and reducing production defects.

- Collaborated with QA teams for bug resolution, provided **UAT support**, and improved system reliability while following **Agile/Scrum methodologies**.
- Managed version control and deployments using **TFS and Git**, and delivered comprehensive **technical documentation, user manuals, and knowledge transfer sessions** to ensure smooth transitions and operational continuity.