

Full Stack .Net Developer

Sai Charan Ailenani

Phone: +1 (434)-322-0323 | **Email:** ailenanisaicharan@gmail.com



[LinkedIn](#)



[GitHub](#)



[Medium](#)



[Portfolio](#)

Professional Summary:

- Full Stack .NET Developer with 8+ years of experience in designing, developing, and maintaining scalable applications using Microsoft .NET technologies, C#, ASP.NET Core, MVC, SQL Server, and React JS.
- Extensive expertise in building dynamic backend solutions with Optimizely CMS (Episerver), creating UI services to interact with middle-tier services, and implementing cloud solutions with Azure and AWS.
- Proven track record of delivering high-quality, user-friendly, and performant solutions by collaborating effectively with cross-functional teams.
- Proficient in containerization using **Docker** and orchestration with **Kubernetes**, enabling scalable, consistent deployments across environments.
- Adept at integrating real-time communication and peer-to-peer streaming using **SignalR**, **WebRTC**, and ensuring data flow efficiency with **RxJS** in frontend applications.
- Demonstrated expertise in backend frameworks, implementing **Dependency Injection** for maintainable and testable services, and following architectural patterns like **Onion Architecture**, **MVC**, and **Service-Oriented Architecture (SOA)**.
- Strong focus on code quality with tools like **SonarQube**, thorough testing with **XUnit**, **Karma**, **Jasmine**, and API validation using **Postman** and **Swagger/OpenAPI**.
- Hands-on experience in managing and optimizing application performance, including caching strategies with **Redis**, **Azure Cache for Redis**, and **MongoDB Atlas** for NoSQL databases.
- Designed and delivered enterprise-level reports and dashboards using **SSRS** and advanced visualizations in **Angular**, enabling data-driven decision-making.
- Specialized in integrating compliance standards like **HIPAA**, **FHIR**, and **HL7** for healthcare systems and implementing **SSL/TLS** protocols for secure data transmission.
- Skilled in leveraging centralized logging and monitoring solutions like **Log4Net** and troubleshooting distributed applications for error resolution and performance optimization.
- Experienced in iterative development using **Agile SDLC methodologies**, managing tasks with **JIRA**, and ensuring smooth team collaboration with **Git** and **Azure Boards**.
- Strong knowledge of serverless architectures using **Azure Functions** and **AWS Lambda**, delivering cost-efficient and scalable solutions for event-driven applications.
- Proven track record of delivering high-quality applications, managing distributed teams, and achieving project deadlines with a customer-focused approach to solving complex business problems.

Technical Skills:

Languages: C#.NET, .NET Framework, ASP.NET Core, MVC, Web API, React JS, TypeScript, JavaScript, Babel, ES6, VB, XHTML5.

Databases: SQL Server, MongoDB, PostgreSQL, Azure Cosmos DB, Redis, Entity Framework Core, T-SQL, PL/SQL.

Content Management Systems: Optimizely CMS (Episerver), Optimizely DXP.

Web Technologies: React, Angular, HTML5, CSS3, Bootstrap.

Cloud Technologies: AWS (Lambda, SNS, SQS, EC2), Azure (Azure Functions, Azure Blob Storage, Azure DevOps, Azure Key Vault).

CI/CD & Tools: Jenkins, Azure DevOps, Docker, Kubernetes, Git, Bitbucket, Visual Studio, Visual Studio Code.

APIs & Integrations: RESTful Services, Microservices, Power Apps, Power Automate.

Testing Frameworks: xUnit, Jest, Enzyme, Postman, Swagger/OpenAPI.

Logging & Monitoring: Log4Net, SonarQube, Azure Application Insights.

Agile & Project Management: Scrum, JIRA, GitHub.

Professional Experience:

Client: Delta Dental Ins, San Francisco, CA
Role: Full Stack .Net Developer

Mar 2023 to Present

Responsibilities:

- Utilized **Agile SDLC** methodologies for continuous delivery and iterative development, ensuring flexibility in adapting evolving business requirements and timely feature releases for the **Client Portal Management** application.
- Designed and implemented a **Microservices architecture** to ensure scalability, security, and fault tolerance, optimizing system performance and integration in the financial data management platform.
- Designed and implemented Microservices architecture using C# and ASP.NET Core. Built RESTful APIs and asynchronous services for high-volume data processing.
- Created dashboards with Angular for data visualization and reporting. Integrated CI/CD pipelines with Azure DevOps for streamlined deployments.
- Managed databases with SQL Server and MongoDB for optimal performance. Developed solutions for OAuth2 and JWT-based authentication.
- Containerized services using Docker and deployed via Kubernetes. Enhanced system performance by optimizing queries and using Redis caching.
- Built UI services to interact with middle-tier services, collaborating with designers and frontend developers.
- Worked closely with production application development and architecture teams to ensure compatibility.
- Utilized **Angular CLI** for efficient project scaffolding, build optimization, lazy loading, and **Angular Universal** for server-side rendering (SSR), enhancing SEO, initial load performance, and secure communication with **JWT** for authenticated data exchange in financial applications.
- Enhanced **UI/UX** by integrating **Angular Material**, creating consistent, accessible user interfaces that ensured a seamless experience across platforms for financial application users.
- Integrated **JSON** as the primary data format for communication between backend services and the frontend, enabling lightweight data transfer and efficient data handling for financial transactions.
- Secured APIs with **OAuth2** for user authentication and authorization, ensuring only authorized users could access sensitive financial data and transactions.
- Worked with **SQL Server** to manage financial records, ensuring efficient storage, retrieval, and modification of financial data while maintaining data integrity and security.
- Designed and optimized **T-SQL** stored procedures and triggers for efficient querying and manipulation of financial data within **SQL Server**.
- Integrated **MongoDB** for NoSQL storage, ensuring flexible and scalable data management for semi-structured financial data in a microservices architecture.
- Integrated **Apache Kafka** for event-driven communication between distributed microservices, ensuring real-time processing of financial data and reducing latency.
- Utilized **Postman** and **Swagger UI** for comprehensive **API testing**, ensuring all endpoints adhered to defined standards and were functioning correctly.
- Leveraged **Azure Cloud** for hosting and deploying applications, using **API Gateway** for secure routing of financial API requests and ensuring high availability and reliability of services.
- Worked with **Azure Blob Storage**, **Azure Key Vault**, and **Azure App Service** for storage management, secret handling, and application hosting in the cloud.
- Built and maintained **CI/CD pipelines** using **Azure DevOps**, automating build, testing, and deployment processes to streamline code delivery and application deployment.
- Containerized applications using **Docker** and orchestrated deployments with **Kubernetes**, ensuring scalability and efficient deployment across multiple environments.
- Conducted testing for backend services and front-end components using **XUnit**, **Karma**, and **Jasmine**, ensuring functionality, reliability, and cross-browser compatibility in the financial data management system.
- Implemented centralized **logging** using **Log4Net** to monitor errors and events across various services, enabling quick issue resolution and operational efficiency.
- Tracked project progress using **JIRA** for task management and timelines, while utilizing **Git** for branching and merging strategies to ensure seamless team collaboration and efficient handling of development features and bug fixes in the financial data management system.

Environment: C#, ASP.NET Core, Angular 16, TypeScript, SQL Server, MongoDB, Redis, Kafka, Docker, Kubernetes, Azure App Services, OAuth2, JWT, Git, xUnit, Postman, Swagger, SonarQube, Log4Net, JIRA, Azure Functions, Entity Framework Core.

Client: HP, Vancouver, WA.
Role: .Net Developer

May 2021 to Feb 2023

Responsibilities:

- Developed and maintained a Software Licensing Management System using ASP.NET Core, C#, and Angular 14, ensuring efficient license tracking and compliance.
- Designed and implemented RESTful APIs to handle license activation, validation, and renewal processes, ensuring seamless integration with external software systems.
- Utilized Microservices architecture to modularize software licensing components, enabling scalability, security, and independent service updates.
- Developed and maintained backend solutions using .NET C# and Optimizely CMS (Episerver). Built and customized dynamic content types, blocks, and templates within Optimizely CMS.
- Implemented and optimized RESTful APIs for integrating Optimizely with various front-end frameworks and external systems.
- Leveraged Optimizely's DXP for managed hosting, ensuring high availability and automatic scaling.
- Troubleshooted and resolved issues related to Optimizely CMS integrations, performance optimization, and functionality enhancements.
- Provided technical recommendations and acted as a subject matter expert on Optimizely CMS.
- Integrated AWS services (Lambda, SNS, SQS) and Docker containers for backend processing and automation.
- Built UI services to interact with frontend applications using React and NodeJS. Implemented version control with Git and streamlined deployments using Jenkins. Developed low-code/no-code solutions using Power Apps and Power Automate for process automation.
- Collaborated with cross-functional teams to ensure seamless integration of backend and frontend services.
- Utilized Azure Functions for serverless processing of license verification and expiration checks, ensuring automated license management with minimal infrastructure costs.
- Integrated Redis caching to enhance the performance of frequently accessed licensing data, reducing database load and improving response times.
- Containerized services using Docker and orchestrated deployments with Kubernetes, ensuring scalable and reliable deployments across environments.
- Automated CI/CD pipelines using Azure DevOps, streamlining code deployment, API versioning, and feature rollouts for licensing applications.
- Implemented logging and monitoring with Log4Net and Azure Application Insights, enabling real-time error tracking and improving system reliability.
- Ensured compliance with software licensing policies and secure data transmission using SSL/TLS encryption, preventing unauthorized access and license misuse.
- Used JIRA for Agile project management, managing sprint tasks, feature releases, and bug tracking to ensure on-time delivery of licensing system enhancements.
- Collaborated with cross-functional teams, including product managers and security teams, to align software licensing solutions with business goals and compliance regulations.

Environment: .NET Core 6, C#, Angular 14, TypeScript, Entity Framework Core, SQL Server, MongoDB, Redis, FHIR, HL7, RESTful APIs, SignalR, OAuth 2.0, JWT, Docker, Kubernetes, Azure App Services, Azure Functions, Azure DevOps, Azure AD, Log4Net, JIRA, CI/CD, Jasmine, Kafka, WCF, HIPAA compliance.

Client: Sherwin-Williams, Cleveland, OH.
Role: .Net Backend Developer

Jan 2019 to April 2021

Responsibilities:

- Implemented **Agile** methodologies to guide the software development lifecycle for transportation systems, ensuring iterative progress, timely delivery, and fostering collaboration across teams while maintaining high-quality standards.
- Designed and implemented **MVC Architecture** for scalable and maintainable transportation applications, ensuring clear separation of concerns across presentation, business logic, and data layers, enhancing maintainability, testing, and modularity.
- Designed and built interactive, responsive web pages using **HTML5**, **CSS3**, and **JavaScript** for transportation solutions, ensuring cross-browser compatibility and optimal user experience.
- Developed responsive, dynamic user interfaces with **React**, ensuring seamless integration with backend services and improving application performance.
- Utilized **React hooks**, **context API**, and custom hooks for managing application state in transportation applications, optimizing data handling and reducing re-renders for improved performance.
- Applied advanced **React** techniques such as lazy loading, code splitting, and memorization to improve rendering efficiency and ensure fast, reliable experiences in complex transportation applications.
- Engineered scalable, high-performance transportation applications using **ASP.NET Core** and **React**, focusing on performance optimization and seamless cross-platform functionality.
- Developed efficient **RESTful APIs** with **ASP.NET Core**, ensuring secure, efficient data flow between front-end, back-end, and database systems for transportation projects.

- Designed and integrated **RESTful web services** for real-time communication in transportation systems, improving system interoperability.
- Optimized communication using **JSON** for lightweight data exchange between components in transportation applications.
- Managed structured data with **SQL Server** and flexible data storage with **MongoDB**, ensuring efficient data retrieval and supporting scalable transportation systems.
- Integrated **Google Cloud Storage** for unstructured data storage and management, optimizing data retrieval and security in transportation systems.
- Automated deployments with **Google Cloud Build**, ensuring continuous integration and rapid, consistent delivery across environments for transportation projects.
- Containerized transportation applications with **Docker**, ensuring consistency across development, testing, and production environments.
- Managed containerized transportation applications with **Google Kubernetes Engine (GKE)**, automating deployment, scaling, and maintenance to improve system reliability and efficiency.
- Used **Visual Studio**, **Visual Studio Code**, and **SQL Server Management Studio** for transportation system development and debugging.
- Implemented **Google Cloud Logging** for centralized logging, improving performance monitoring and error resolution in transportation systems.
- Managed projects and tracked tasks using **TFS**, ensuring timely delivery of transportation initiatives and alignment with business objectives.

Environment: Agile SDLC, ASP.NET MVC, React, Jest, React Testing Library, Entity Framework, RESTful Web Services, JSON, SQL Server, MongoDB, xUnit, TFS, Visual Studio Code, SQL Server Management Studio, Log4Net.

Client: VentureDrive, Delhi, India
Role: .Net Web Developer

July 2017 to Dec 2018

Responsibilities:

- **Agile** approaches were used, emphasizing iterative development, frequent sprint planning, and ongoing feedback to improve teamwork and project flexibility.
- Designed and deployed **microservices** to modularize billing functions, enabling scalable and independent management of services and improving system resilience.
- Implemented **MVC architecture** to structure the application for scalable and maintainable code, enhancing user experience and separation of concerns.
- Styled and structured web pages using **HTML5** and **CSS3**, ensuring responsive design, modern aesthetics, and a seamless user experience across different devices and browsers.
- Migrated dynamic web interfaces from **Angular** for a responsive and user-friendly frontend experience, while improving application performance and integrating new capabilities.
- Developed client-side functionality using **TypeScript** for interactive and real-time features.
- Developed dynamic and responsive web applications using **Angular**, utilizing its powerful features like data binding, component architecture, and dependency injection to deliver high-performance user interfaces and seamless functionality.
- Leveraged **C#** and maintained backend services that supported business processes and customer-facing apps by integrating **APIs**, data processing, and essential business logic.
- Built **RESTful APIs** with **ASP.NET Core** and **ASP.NET Web API**, enabling secure and efficient communication between client and server.
- Integrated **OAuth/OpenID Connect** and **ASP.NET Identity** for secure user authentication and authorization.
- Designed and implemented **PostgreSQL** databases to efficiently store, manage, and retrieve large datasets, ensuring high availability and data integrity while optimizing query performance.
- Designed and enhanced data access layers using **ADO.NET** with **PostgreSQL**, improving query performance and efficiently managing database connections.
- Performed unit testing with **xUnit** to ensure code reliability and automated UI testing with **Selenium** for frontend validation.
- Verified **API** functionality using **Postman** and documented APIs with **Swagger/OpenAPI** for interactive and clear documentation.
- Managed and secured **APIs** through **Google Cloud API Gateway**, ensuring proper access control and monitoring.
- Leveraged **Google Identity Platform (IAM)** for centralized user identity and access management.
- Managed large datasets with **Google Cloud Storage** and protected application secrets and sensitive data using **Google Cloud Key Management**.
- Utilized **Google Cloud Firestore** for flexible, scalable NoSQL data management where needed.
- Managed application lifecycle with **Google Cloud Build**, including **CI/CD** pipelines and version control using **GitLab CLI**.

Environment: .NET , C#, ASP.NET Core, ASP.NET Web API, ADO.NET, PostgreSQL, SQL Server, Azure Cosmos DB, MVC architecture, Angular, HTML, CSS, TypeScript, OAuth/OpenID Connect, ASP.NET Identity, Azure AD, HTTPS/TLS, DICOM, SSRS, HIPAA, Event Hub, Azure DevOps, YAML Pipelines, GitLab CLI, Docker, Kubernetes, Azure Blob Storage, Azure Key Vault, xUnit, Selenium, Postman, Swagger/Open API, Azure API Management, Azure Service Bus.

EDUCATION

Wilmington University | Wilmington, Delaware

Masters in computer science

Jawaharlal Nehru Technological University | Hyderabad, India

Bachelors in computer science