

Sharanya

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Role: Senior .NET Full Stack Developer

A results-oriented .NET Full Stack Developer with 5 years of experience architecting, building, and deploying high-stakes, distributed systems for the fintech and telecommunications industries. Expert in designing and implementing highly scalable, cloud-native microservice architectures on Azure using .NET 8 and C#.

Proficient in creating sophisticated, low-latency user interfaces with React. A dedicated professional with a strong focus on system performance, security, and writing clean, testable, and maintainable code.

Technical Skills

- **Languages:** C#, SQL, JavaScript, TypeScript, T-SQL, KQL
- **.NET & Frameworks:** .NET 8/7/6, ASP.NET Core, gRPC, Entity Framework Core, LINQ, SignalR
- **Front-End:** React, Redux Toolkit, HTML5, CSS3, Material-UI, WebSockets
- **Cloud & DevOps:** Azure (Kubernetes Service (AKS), Functions, App Service, SQL Database, Cosmos DB, Event Hubs), Docker, Azure DevOps (CI/CD), Terraform
- **Databases:** MS SQL Server, Azure SQL, PostgreSQL, Cosmos DB, Redis
- **Architecture & Patterns:** Microservices, RESTful APIs, gRPC, Event-Driven Architecture, CQRS, SOLID
- **Testing:** xUnit, NUnit, Moq, FluentAssertions, Jest, React Testing Library, Playwright
- **Tools:** Visual Studio 2022, VS Code, Git, Docker, Postman, Azure Data Studio, Jira

Professional Experience

Robinhood, Menlo Park, CA | .NET Full Stack Developer | March 2025 – Present

- Leads the design and development of a next-generation, real-time options trading platform, focusing on ultra-low latency and high availability.
- Drives the adoption of high-performance technologies like gRPC and event streaming to handle massive volumes of market data.

Project: Real-Time Options Trading & Analytics Platform

- **Tech Stack:** .NET 8, ASP.NET Core, gRPC, React, Redux, Cosmos DB, Azure Kubernetes Service (AKS), Kafka, Redis, Terraform.
- Architected and built a distributed system of .NET microservices for options order routing, real-time pricing, and risk analysis using a high-performance gRPC-based communication layer.
- Developed a sophisticated, real-time trading interface with React and Redux Toolkit, providing traders with live market data, advanced charting, and sub-second order execution.
- Engineered a high-throughput data pipeline using Apache Kafka to ingest and process millions of options market data messages per second from multiple exchanges.
- Containerized all microservices with Docker and deployed them to a managed Azure Kubernetes Service (AKS) cluster, configured for high availability and auto-scaling.
- Utilized Cosmos DB for its low-latency and multi-region write capabilities to store all trade and order data, ensuring data consistency and disaster recovery.
- Implemented a multi-layer caching strategy with Redis to store frequently accessed data like user account balances and options chains, dramatically reducing database load.

- Automated the entire Azure infrastructure deployment using Terraform, ensuring consistent, secure, and auditable environments.
- Built a SignalR-based notification service to push real-time trade confirmations, price alerts, and account updates to the client application.
- Wrote extensive performance and load tests to validate that the system met stringent latency and throughput SLOs.
- The platform provides a significant competitive advantage by reducing order execution latency by over 50% compared to the previous system.

PayPal, San Jose, CA | .NET Full Stack Developer | Aug 2023 – Feb 2025

- Contributed to the development of a global merchant onboarding and payments platform, focusing on scalability and international compliance.

Project: Global Merchant Onboarding and Payouts Platform

- **Tech Stack:** .NET 6, ASP.NET Core, React, Entity Framework Core, MS SQL Server, Azure Functions, Azure Service Bus, Azure DevOps.
- Developed and maintained a system of RESTful microservices with ASP.NET Core to handle merchant account creation, identity verification (KYC), and payment processing.
- Built a secure, internal-facing web portal with React for the operations team to manage merchant accounts, review compliance documents, and resolve payout issues.
- Designed an event-driven workflow using Azure Service Bus to orchestrate the multi-step merchant onboarding process, from application submission to final approval.
- Created a suite of serverless Azure Functions to handle asynchronous tasks such as document processing, risk assessment, and sending email notifications.
- Designed and implemented the database schema in Azure SQL, using Entity Framework Core to manage data for millions of merchant accounts.
- Established a comprehensive CI/CD pipeline in Azure DevOps, which included automated unit tests, integration tests, and security scans.
- Integrated with numerous third-party APIs for identity verification and anti-money laundering (AML) checks to ensure compliance across different regions.
- The platform successfully automated 90% of the merchant onboarding process, reducing the average onboarding time from several days to under an hour.

AT&T, Dallas, TX | .NET Developer | Jan 2021 – July 2023

- Developed and maintained customer-facing and internal applications for the company's wireless and enterprise divisions.

Project: Enterprise Customer Self-Service Portal

- **Tech Stack:** .NET Core 3.1, ASP.NET Core MVC, C#, jQuery, SQL Server.
- Contributed to a large-scale web application that allowed enterprise clients to manage their wireless accounts, view billing information, and order new services.
- Developed back-end business logic in C# and ASP.NET Core MVC to handle complex billing structures, device management, and service provisioning.
- Created and maintained responsive user interfaces using Razor Views, Bootstrap, and jQuery, ensuring a consistent user experience.
- Wrote and optimized complex T-SQL stored procedures and queries in SQL Server to manage data for large enterprise accounts.
- Collaborated in a large agile team, working closely with product owners and QA to deliver new features

- and resolve bugs in a timely manner.
- Gained foundational experience in enterprise software development, including version control with Git, CI/CD pipelines, and application security best practices.
 - Helped troubleshoot and resolve production issues, ensuring the stability of a business-critical customer portal.

Education

Master's | Lindsey Wilson College, Kentucky, US

Bachelor's in computer science | JNTUH

Certifications

- **Microsoft Certified: Azure Developer Associate (AZ-204)**