

Amin Akhtar

Staff Engineer (.NET) | Distributed Systems | Cloud Architect

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Summary

Staff-level Software Engineer with 10+ years of experience designing and delivering scalable, secure, and distributed .NET systems. Proven track record of **technical leadership (architecture, mentorship, system design)** while remaining hands-on with code. Experienced in **regulated environments (finance, identity verification)** and cloud-native systems on **AWS & Azure**. Skilled at aligning technical strategy with business outcomes and elevating team engineering standards.

Core Skills

- **Languages:** C#, .NET Core/6/8, TypeScript, JavaScript, Blazor, React
- **Cloud & Infrastructure:** AWS (Lambda, DynamoDB, S3, EC2), Azure DevOps, Kubernetes, Docker, Terraform, Helm
- **Data Systems:** SQL Server, NoSQL (CosmosDB, DynamoDB), Kafka, Elasticsearch
- **Architecture:** Microservices, REST APIs, Event-driven systems, API Gateways, Cloud-native integration
- **Security:** OAuth2/OIDC, Azure AD, Encryption at rest/in transit, Secure coding in financial systems
- **Practices:** CI/CD pipelines, GitOps, Test-driven development, Distributed tracing, Observability (Datadog, CloudWatch, Kibana)
- **Leadership:** Technical mentoring, architecture reviews, cross-team collaboration, Agile delivery

Professional Experience

San Diego County Credit Union (SDCCU) – Sr. Software Engineer

2024 – Present | San Diego, CA

- Architected and developed **secure online banking features** using modern .NET, ensuring compliance with financial regulations.
- Designed and deployed **CI/CD pipelines in Azure DevOps**, automating builds, testing, and deployments across QA, UAT, and production.
- Built **scalable REST APIs** and optimized backend SQL services, enabling high availability for transaction-heavy systems.
- Led design discussions and mentored engineers on **secure coding and performance best practices**.
- Partnered with product and QA teams in Agile sprints to deliver new features reliably at scale.

Agorus – Sr. Software Engineer (Tech Lead)

2023 – 2024

- **Led architectural design** for an inventory management system (Blazor, .NET, SQL Server).
- Integrated secure **OAuth 2.0 authentication** via Azure Active Directory.
- Architected and deployed backend services to drive **robotic automation systems** in construction.

- Guided junior developers through code reviews, SDLC practices, and deployment automation.
- Designed **data integrity strategies** (record versioning, soft delete, and audit logging).

Best Buy – Sr. Software Engineer (Contract)

2022 – 2023

- Built and containerized .NET 6 applications for **Kubernetes**, enabling automated scaling and resilience.
- Developed **real-time notification services** using Elastic Watcher and integrated **event-driven APIs**.
- Migrated legacy SOAP-to-SQL processes into modern RESTful services with improved observability.

Trulioo – Software Engineer (Contract)

2022 – 2023

- Developed **AWS Lambda serverless functions** for identity verification pipelines.
- Designed distributed data processing pipelines with **DynamoDB and S3**, improving scalability.
- Enhanced observability and monitoring for **identity verification systems** in regulated environments.

Red Door Interactive – Software Engineer

2018 – 2022

- Delivered enterprise-grade .NET Core MVC applications and **CMS platform migrations**.
- Led the migration of SDCCU to **Kentico 13 on .NET 6**, building reusable modules and modernizing infrastructure.
- Drove **Agile team delivery** of major feature releases with strong focus on performance and scalability.

Willis Towers Watson – Software Developer

2017 – 2019

- Enhanced legacy and modern systems with **C#, C++, and LINQ**.
- Designed optimized SQL queries for **large-scale financial systems**, ensuring accuracy and performance.

Navigant Consulting – Junior Software Developer

2015 – 2017

- Developed **WPF desktop applications** and automated data parsing pipelines with Regex and OCR.
- Improved data pipeline performance with optimized SQL views and stored procedures.

Projects

- **File Management REST API** – Open-source .NET API for document storage and version control.
- **Cloud Identity Sandbox** – Identity verification sandbox using Node.js, AWS, and OAuth 2.0.
- **Drink Tracker** – Full-stack app with Google OAuth for authentication, hosted with custom-built UI.

Education

- **M.S., Computer Science – Western Illinois University | 2014**
- **B.S., Software Engineering – Hamedan Azad University | 2008**