

SANJYOT AGUREDDY

Solution Architect | Cloud-Native Distributed Systems | .NET | AWS | AI-Driven Engineering

+91 7875633727 • sanjyot.agureddy4@gmail.com • linkedin.com/in/sanjyotagureddy • github.com/sanjyotagureddy • Pune, India

SUMMARY

Solution Architect (individual-contributor track) with 11+ years in cloud-native, event-driven platform engineering, transitioned into the architect role at JPMorgan Chase after 2.5 years leading technical design as a Technical Lead. Sets architectural direction and technical standards used by 10-30 engineers across multiple teams, informally mentors engineers on design and architecture reviews, and regularly presents technology roadmap and modernization decisions to VP/Director-level leadership and architecture review boards. Track record spans .NET, AWS, and Kafka platform design for fintech transaction processing, monolith-to-microservices modernization, and introducing AI-driven engineering practices — LLM workflows, multi-model orchestration, intelligent automation. AWS certified (Solutions Architect, Developer, SysOps Administrator), with foundational Azure certifications.

CORE COMPETENCIES

- Architecture Governance & Standards
- Technology Roadmap & Modernization Strategy
- Event-Driven & Distributed Systems Design
- Cloud-Native Platform Engineering
- Cross-Team Technical Leadership
- Stakeholder & Executive Communication
- AI-Driven Engineering Enablement
- Financial Services Compliance & Security

TECHNICAL SKILLS

Architecture: Solution Architecture, Microservices, Event-Driven Architecture, Distributed Systems, Domain-Driven Design, API Design & Integration, System Modernization, High Availability & Resiliency, Generative AI, Agentic AI, LLM Workflows, Prompt Engineering, GitHub Copilot

Engineering: C#, .NET Core/.NET 8, ASP.NET Core, REST APIs, EF Core, Python, MediatR, CQRS, Kafka, RabbitMQ, SQL CDC, SQL Server, PostgreSQL, Redis, Docker

Cloud & DevOps: AWS (Lambda, S3, DynamoDB, RDS, EC2, API Gateway, Secrets Manager), Azure, GitHub Actions, Jenkins, CI/CD Automation, Structured Logging, Distributed Tracing, Serilog, Sumo Logic

EXPERIENCE

JPMorgan Chase — Pune, India

07/2022 – Present

Solution Architect

01/2025 – Present

- Own architecture and technical direction for enterprise modernization programs, setting technical standards used by 10-30 engineers across multiple teams building on the platforms I designed as Technical Lead.
- Regularly present architecture decisions and technology roadmap recommendations to VP/Director-level leadership and architecture review boards, supporting alignment on build-vs-buy calls, platform standards, and modernization priorities.
- Define secure integration and compliance standards (encryption, IAM policies, access controls) for financial services microservices, and set observability standards (structured logging, distributed tracing) that shortened incident response time.
- Informally mentor engineers across teams through design and architecture reviews, helping less-senior engineers reason about tradeoffs in distributed systems design before implementation.

Technical Lead

07/2022 – 12/2024

- Led technical design and delivery of an event-driven platform on Kafka for real-time financial order processing (new, updated, cancelled orders), defining integration patterns, retry strategies, and downstream processing standards now used by teams building on the platform.
- Directed design of vendor-specific transformation pipelines that automated downstream financial processing, reducing manual reconciliation effort and operational bottlenecks.
- Introduced AI-assisted engineering practices — GitHub Copilot, multi-model orchestration, LLM-driven automation — to improve code review quality and developer productivity; led development of an AI-powered source code documentation platform recognized as 2nd Runner-Up at the JPMorgan Chase Hackathon.

- Contributed to enterprise modernization programs, transforming legacy monolithic applications into cloud-native microservices; reduced delivery timelines by 20% through reusable engineering patterns and improved Agile execution.

Technical Lead Software Engineer | NICE — Pune, India

10/2021 – 06/2022

- Designed reusable platform services for resilience, observability, and security across enterprise microservices, including a centralized framework with plug-and-play retry logic, circuit breakers, and exception handling.
- Implemented an automated secrets management platform using AWS Secrets Manager and Lambda, eliminating manual credential handling and enabling secure rotation.
- Led cross-functional teams of developers, QA, and DevOps across the delivery lifecycle; established coding standards, CI/CD pipelines, and quality gates; mentored engineers through architecture reviews.

Senior Software Engineer | Pitney Bowes — Pune, India

04/2020 – 10/2021

- Owned the Kafka-based synchronization module end-to-end — design, build, and production support — as sole module owner, replacing a legacy Classic ASP monolith with no distributed processing capability with an event-driven architecture that eliminated synchronous processing bottlenecks and enabled real-time data movement between platforms.
- Architected event-driven integration connecting legacy systems with microservices, enabling real-time distributed processing and improved interoperability across enterprise workflows.
- Led migration of legacy monolithic applications to .NET Core microservices, supporting incremental modernization without disrupting live systems.
- Implemented API integration and distributed messaging strategies improving interoperability between legacy platforms, microservices, and third-party systems.

Technical Consultant | FIS — Pune & Bangkok

02/2019 – 04/2020

- Contributed to enterprise banking risk assessment platforms used for portfolio analysis, customer risk evaluation, and loan decisioning across global financial institutions.
- Built backend services in .NET and Python to aggregate and process financial data from multiple upstream systems; supported configurable, client-specific risk evaluation modules.
- Coordinated with onsite stakeholders in Bangkok and offshore teams on requirement analysis, sprint execution, and delivery alignment.
- Implemented centralized logging and monitoring (Sumo Logic, Serilog, log4net), improving production troubleshooting and incident tracking.

Software Engineer | Zensar Technologies — Pune, India

08/2015 – 02/2019

- Delivered backend features and workflow automation for enterprise .NET applications; improved application stability through debugging, performance optimization, and refactoring.
- Designed and implemented a custom monitoring and alerting system for production servers, improving production availability by 30% and reducing incident response time.
- Participated in Agile delivery — sprint planning, code reviews, defect tracking — and coordinated with QA and business stakeholders on requirements validation.

RECOGNITION

2nd Runner-Up, JPMorgan Chase Hackathon '24 (AI-powered source code documentation)

- ADS Quarterly Award, Pitney Bowes '21
- Annual Excellence Award, Zensar '18
- Budding Innovator's Award, Zensar '18

CERTIFICATIONS

AWS — Associate: Solutions Architect, Developer, SysOps Administrator

AWS — Foundational: Cloud Practitioner

Azure — Foundational: AZ-900 (Azure Fundamentals), DP-900 (Data Fundamentals), AI-900 (AI Fundamentals), SC-900 (Security, Compliance, and Identity Fundamentals)

EDUCATION

MBA, IT and Systems Management — SVKM's NMIMS

09/2022 – 06/2024

B.E., Computer Engineering — Pune University

09/2012 – 06/2015