



# Soumik Nath

Full-Stack Architect | 15 years experience

## PROFESSIONAL SUMMARY

Experienced professional with 15 years of expertise in software development, scalable systems, and modern application design.

## EXPERIENCE

### Senior Architect - Payment Merchant Services - Barclays (Jan 2018 — Present)

- Architecting enterprise-grade payment processing platforms for 30+ million daily transactions with high availability and zero downtime.
- Defined microservices decomposition strategy with bounded context modeling (DDD) and implemented API Gateway & Service Mesh using Istio.
- Implemented multi-region failover and disaster recovery strategy with active-active architecture in Azure.
- Established standardized GraphQL schema federation for merchant onboarding and payment orchestration modules.
- Integrated distributed caching with Redis and Hazelcast to reduce transaction latency by 40%.
- Led adoption of event-driven messaging with Kafka Streams for real-time payment reconciliation.
- Introduced advanced logging and monitoring using ELK & Prometheus/Grafana with proactive anomaly detection.
- Reviewed and approved system design documents, conducted performance profiling, and optimized integration tests.
- Led security remediation for OWASP, Veracode, and PCI-DSS compliance.
- Mentored 15+ engineers and conducted technical workshops on system scalability and cloud-native design.
- Implemented chaos engineering experiments to test resiliency under peak loads.

### Technical Lead / Full-Stack Architect - Optum (UnitedHealth Group) (Jan 2015 — Dec 2017)

- Owned end-to-end design of large-scale healthcare modules serving 20+ million members.
- Redesigned legacy monolith into microservices-based architecture following DDD principles.
- Implemented GraphQL gateway for federated data access across patient care and insurance modules.
- Designed event-driven messaging patterns using Kafka for near-real-time patient data synchronization across distributed systems.
- Introduced CQRS and event sourcing patterns for claims processing and patient history audits.
- Guided Azure Kubernetes Service (AKS)-based containerization with automated blue-green deployments.
- Introduced Sonar & Checkmarx pipelines for continuous security scanning and code quality enforcement.
- Mentored a team of 10 engineers on secure microservices patterns and GraphQL schema design.

### Senior Consultant - Back-End Architect - Hitachi Consulting (Jan 2014 — Dec 2014)

- Enhanced Lumada Data Catalog performance and redesigned data ingestion pipelines for big data analytics.
- Proposed architectural improvements for batch-to-stream processing migration using Kafka & Spark.
- Implemented role-based access control (RBAC) and data encryption modules to comply with data privacy requirements.

### Technology Analyst / Solution Architect (Progressive Roles) - Deloitte (Jun 2010 — Dec 2013)

- Designed mortgage risk assessment microservices using Spring Boot and implemented scalable rule engines.
- Standardized OpenShift-based containerized deployments for banking applications.
- Introduced automated performance benchmarking and fine-tuned APIs for low-latency transactions.
- Defined secure coding practices, mentored multiple teams, and contributed to enterprise architecture governance forums.

### Associate Consultant / Full-Stack Developer - Capgemini India Pvt. Ltd. (Aug 2010 — May 2012)

- Developed core banking and capital funding modules with Spring Boot, Angular, and Oracle.
- Established secure data transactions and API-based communication for account and payment management systems.

## CONTACT

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## ARCHITECTURAL SKILLS

Microservices Architecture

Event-Driven Architecture

REST & GraphQL API Design

Scalable System Design

GraphQL

Docker

## FRONTEND SKILLS

Angular 8

JavaScript

CSS

Bootstrap

## TECHNICAL SKILLS

Domain-Driven Design (DDD)

High Availability Solutions

Multi-Region Disaster Recovery

Distributed Caching with Redis & Hazelcast

Java 8+

Spring Boot

Spring Cloud

Spring Security

## EDUCATION

• B-Tech in Computer Science – Academy Of Technology (2006 — 2010)