



# Subrata Mohanta

Pune, India | +91 9777177256  
[subrata.mohanta@outlook.com](mailto:subrata.mohanta@outlook.com)  
[LinkedIn](#) | [GitHub](#) | [YouTube](#)



## **Enterprise Solution Architect | 17+ Years IT | 5+ Years Payments & FinTech | Cloud-Native Modernization | GCP & Azure | Microservices | Kubernetes | PCI DSS | Architecture Governance**

Enterprise Solution Architect with 17+ years of overall IT experience, including 5+ years of focused experience in FinTech, Cards, Payment Gateways, and enterprise payment platform modernization.

Specialized in designing scalable, secure, resilient, and high-availability enterprise systems using cloud-native microservices, Kubernetes, distributed messaging, API-led integrations, and modern DevOps practices.

Experienced in payment gateway modernization, PCI DSS-aligned architecture, cloud migration, distributed systems, low-latency transaction platforms, architecture governance, and enterprise integration for mission-critical financial environments.

Proven ability to lead architecture initiatives, define modernization roadmaps, collaborate with global stakeholders, and deliver technology solutions aligned with business, regulatory, and operational priorities.

### Core Architecture Strengths

- ✓ Enterprise & Solution Architecture
- ✓ Payment Gateway, Cards & FinTech Platforms
- ✓ Cloud-Native Modernization: GCP, Azure, Kubernetes, Docker
- ✓ Microservices, Distributed Systems & Event-Driven Architecture
- ✓ API Gateway, REST/gRPC, OAuth2, OpenID Connect
- ✓ Messaging: Kafka, RabbitMQ, Redis, MQ Integration Patterns
- ✓ PCI DSS, Secure Architecture, OWASP, Secure Engineering
- ✓ Observability, Structured Logging, Telemetry & BigQuery
- ✓ Architecture Governance, ADBs, Design Reviews, Stakeholder Alignment
- ✓ DevOps, CI/CD, Release Automation & Environment Governance

### Accomplishments

- ✓ Led architecture governance and documentation modernization for a large-scale GCP migration involving 26 Architectural Design Briefs and nearly 30 interconnected applications/services.
- ✓ Architected payment gateway integrations including Visa IPP and Apexx BNPL, enabling new payment capabilities across enterprise transaction platforms.
- ✓ Designed structured logging, telemetry, and BigQuery-based observability patterns to improve production visibility and reduce incident investigation effort.
- ✓ Architected risk monitoring and notification capabilities using transaction telemetry to identify abnormal decline patterns and support proactive risk mitigation.
- ✓ Strengthened PCI DSS readiness through secure architecture reviews, governance practices, and alignment with enterprise security standards.
- ✓ Publish practical architecture, cloud-native engineering, and microservices tutorials through GitHub and YouTube to support developer learning..

### Technical Skills

- ✓ **Methodologies & Frameworks:** Agile (Scrum), SAFe, DevOps, TOGAF
- ✓ **Cloud Platforms:** Google Cloud Platform (GCP), Microsoft Azure
- ✓ **Programming Languages:** C#, .NET Core, .NET Framework, WCF
- ✓ **API & Integration:** REST APIs, gRPC, OAuth2.0, OpenID Connect, ISO 8583/ISO 20022 Messaging, SWIFT Integration
- ✓ **Architecture:** Microservices, Distributed Systems, Event-Driven Architecture, SAGA Pattern, API Gateway
- ✓ **Databases:** PostgreSQL, SQL Server, Sybase
- ✓ **Containers & Orchestration:** Docker, Kubernetes
- ✓ **CI/CD & DevOps Tools:** TeamCity, Octopus Deploy, SonarQube, Nexus
- ✓ **Security & Compliance:** PCI DSS, Secure Coding Practices, OWASP ZAP
- ✓ **Messaging & Integration:** Redis, RabbitMQ, Kafka, Asynchronous Messaging, MQ Integration Patterns, Event-Driven Integration

## Professional Experience

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**Senior Solutions Architect** (Jun 2022 onwards)  
**Global Payments Inc. | Pune, Maharashtra, India**

- ✓ Led architecture governance for large-scale data center migration from Allen/Sunnyvale environments to GCP US-East and US-Central regions, covering 26 ADBs and nearly 30 interconnected applications/services.
- ✓ Updated conceptual architecture, deployment, network, IAM, DNS, load-balancing, and inter-service communication views to align with cloud-native and enterprise security standards.
- ✓ Architected Visa IPP and Apexx BNPL integrations for enterprise payment gateway platforms, enabling new payment capabilities and production rollout.
- ✓ Designed structured logging and telemetry frameworks using JSON logs and GCP BigQuery to improve observability and incident investigation.
- ✓ Architected automated risk monitoring and notification capabilities to detect abnormal terminal-level decline patterns and support proactive risk mitigation.
- ✓ Led architecture reviews aligned with PCI DSS, enterprise security standards, and cloud governance practices.
- ✓ Collaborated with business, engineering, security, operations, and enterprise architecture teams to align solution design with delivery and regulatory priorities.

**Software Development Lead** (Dec 2020 - May 2022)  
**Global Payments Inc. | Pune, Maharashtra, India**

- ✓ Led cross-functional engineering teams supporting secure payment processing platforms within the FinTech domain.
- ✓ Improved platform stability, maintainability, and code quality through development standards and engineering governance.
- ✓ Facilitated agile delivery, sprint planning, stakeholder coordination, and production release activities.



**BMW**  
**Financial Services**

**Information Technology Application Specialist** (Sep 2018 to Aug 2020)  
**BMW Financial Services | Bangkok, Thailand**

- ✓ Designed and implemented CI/CD pipelines using TeamCity, Octopus Deploy, SonarQube, and Nexus across QA, UAT, pre-production, integration, and production environments.
- ✓ Supported release governance, environment stability, deployment automation, and modernization discussions for enterprise financial platforms.

**Technical Business Analyst** (Jan 2018 to Sep 2018)  
**BMW Financial Services | Bangkok, Thailand**

- ✓ Translated business requirements into BRD/SRS and technical specifications while coordinating SIT, UAT, release activities, and stakeholder communication.



**Technical Lead** (Sep 2016 - Dec 2017) | **Senior System Analyst** (Aug 2015 - Aug 2016) | **System Analyst** (Jun 2014 - Aug 2015)  
**Atos India Pvt. Ltd. | Pune, Maharashtra, India**

- ✓ Led a cross-functional support and development team for enterprise leasing applications across multiple regions.
- ✓ Managed production support, release coordination, deployment validation, and application stability initiatives.
- ✓ Collaborated with global stakeholders ensuring operational continuity and timely issue resolution.



**CRÉDIT AGRICOLE**  
**CORPORATE & INVESTMENT BANK**

**Senior System Analyst** (Oct 2012 to Mar 2014) **Crédit Agricole Corporate & Investment Bank | Singapore**

- ✓ Supported enhancements and Basel II to Basel III regulatory upgrades for enterprise credit rating systems.
  - ✓ Analyzed and resolved production issues improving system stability and operational reliability.
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an NTT Communications Company

**Senior Software Engineer** (May 2010 to Aug 2011) | **System Analyst** (Aug 2011 to Sep 2012)  
**Emerio Infotech Pte. Ltd.** | **Malaysia / Singapore**

- ✓ Developed and maintained enterprise applications using .NET technologies.
- ✓ Supported deployment, defect resolution, production support, and post-release validation activities

## Previous Assignments



- ✓ **Software Engineer**, PT Astra International Tbk, Jakarta, Indonesia (Nov 2009 to Apr 2010)
- ✓ **Software Engineer**, Damco Solutions Limited, Haryana, India (May 2008 to Oct 2009)

## Education

- ✓ **M.C.A.**, from Centre for IT Education, BPUT, India (2008)
- ✓ **P.G. Diploma (Software Development (GNIT))**, from NIIT Ltd., India (2005)
- ✓ **B.A.**, from Ispat College, Sambalpur University, India (2002)

## Certification and Training Attended

- ✓ TOGAF® Enterprise Architecture Foundation & Practitioner (TOGAF® 10)
- ✓ Google Cloud Certified Professional Cloud Architect
- ✓ Microsoft Certified: Azure Solutions Architect Expert
- ✓ Microsoft Certified: Azure Administrator Associate
- ✓ Certified SAFe® 5 Architect
- ✓ Certified SAFe® 5 DevOps Practitioner
- ✓ Certified SAFe® 5 Product Owner/Product Manager
- ✓ Certified SAFe® 5 Advanced Scrum Master/Scrum Master
- ✓ Certified SAFe® 5 Release Train Engineer
- ✓ Certified SAFe® 5 Practitioner
- ✓ Certified Six Sigma White Belt Advanced Innovation
- ✓ Microsoft Technology Associate (MTA) DB Fundamentals
- ✓ Microsoft Technology Associate (MTA) SD Fundamentals

## Additional Information

- ✓ **Languages:** Hindi, Odia, Bengali, English
- ✓ **Passport Details:** U3403406 (valid till 14 Jun 2031)

## Community & Content

- ✓ Creator of [LearnToCodeWithSubrata](#) YouTube channel teaching practical coding concepts
- ✓ Publish tutorials simplifying .NET, microservices, cloud architecture, and system design
- ✓ Share hands-on walkthroughs helping developers master enterprise development patterns
- ✓ **Profiles:** [GitHub](#) | [YouTube](#)

## Project Details

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**Project:** VISA IPP Integration

**Client:** Global Payments Inc.

**Duration:** Mar 2023 – Aug 2023

**Environment:** .NET Core, REST APIs, GCP

**Details:** Architected and implemented enterprise payment gateway integration with VISA APIs enabling VISA Instalment Payment Plan (IPP) capabilities, ensuring secure API orchestration and successful production deployment.

**Role:** Senior Solutions Architect

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**Project:** Apexx BNPL Integration

**Client:** Global Payments Inc.

**Duration:** Sep 2023 – Jan 2024

**Environment:** .NET Core, REST APIs, GCP

**Details:** Designed and implemented Apexx Buy-Now-Pay-Later (BNPL) integration for enterprise payment gateway systems enabling expanded payment processing capabilities and seamless production rollout.

**Role:** Senior Solutions Architect

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**Project:** Structured Logging & Observability Platform

**Client:** Global Payments Inc.

**Duration:** Feb 2024 – Jul 2024

**Environment:** GCP, Big Query, JSON Telemetry

**Details:** Architected structured logging and telemetry frameworks leveraging JSON-based logs and GCP Big Query integration, enabling centralized observability, production health monitoring, and faster root-cause analysis across distributed payment applications.

**Role:** Senior Solutions Architect

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**Project:** Risk Notification & Monitoring Service

**Client:** Global Payments Inc.

**Duration:** Aug 2024 – Jan 2025

**Environment:** GCP, Big Query, JSON Logs, Event-Driven Processing

**Details:** Designed and architected an automated risk monitoring platform analysing structured transaction logs to identify abnormal decline patterns, trigger proactive risk notifications, and automate temporary suspension of high-risk merchant terminals.

**Role:** Senior Solutions Architect

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**Project:** Payment Gateway Modernization

**Client:** Global Payments Inc.

**Duration:** Jun 2022 – Present

**Environment:** .NET Core, GCP, Docker, Kubernetes, RabbitMQ

**Details:** Architected cloud-native modernization initiatives for enterprise payment gateway platforms, enabling scalable, resilient, and high-availability microservices-based payment processing using GCP, Docker, Kubernetes, and distributed messaging patterns supporting low-latency transaction processing requirements.

**Role:** Senior Solutions Architect

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**Project:** Cloud Migration (On-Premises to GCP)

**Client:** Global Payments Inc.

**Duration:** Jul 2022 – Feb 2023

**Environment:** GCP, Docker, Kubernetes

**Details:** Defined and supported enterprise cloud migration strategies transitioning legacy monolithic systems toward scalable, resilient, and cloud-native architectures on GCP.

**Role:** Senior Solutions Architect

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**Project:** CI/CD & DevOps Implementation

**Client:** BMW Financial Services

**Duration:** Sep 2018 – Aug 2020

**Environment:** TeamCity, Octopus Deploy, SonarQube, Nexus

**Details:** Designed and implemented CI/CD pipelines, improving deployment processes and ensuring stability across multiple environments.

**Role:** Information Technology Application Specialist