

PHANI KUMAR KOLLA

SENIOR SOLUTIONS ARCHITECT

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PROFESSIONAL SUMMARY

Results-driven Solutions Architect with 13+ years designing and delivering enterprise-grade cloud solutions, microservices platforms, and large-scale modernization initiatives. Deep expertise translating complex business requirements into secure, scalable, cost-optimized architectures aligned to well-architected frameworks (AWS WAF, Azure CAF). Proven track record owning end-to-end architecture lifecycle: strategic vision, design specifications, architecture decision records (ADRs), proof-of-concepts, implementation guidance, and operational handover—partnering closely with product, engineering, compliance, and business stakeholders to drive adoption and measurable business outcomes.

Core Strengths:

Architecture Governance & Frameworks | Technical Roadmapping & Modernization Strategy | Cloud-Native Design Patterns | Distributed Systems & Microservices Architecture | FinOps & Cloud Cost Optimization | DevOps Transformation | Stakeholder Alignment & Risk Mitigation

CERTIFICATIONS



AWS Certified Solutions Architect – Associate (2025)



TOGAF® 9 Certified – Enterprise Architecture (2023)



Microsoft Certified: Azure Fundamentals (2023)



Microsoft Certified: Azure AI Fundamentals (2023)

PROFESSIONAL EXPERIENCE

Lead Software Engineer / Solutions Architect

Feb 2022 – Present

Wells Fargo — Disputes Automated Tracking (DAT)

Architecture & Modernization Leadership

- Architected and re-engineered a high-volume enterprise platform (~12,000 claims processed daily) using Spring Boot microservices on AWS, reducing claim creation latency by 66% and increasing banker productivity by 2x.
- Established enterprise architecture governance framework including architecture standards, design review processes, reusable microservices patterns, and ADRs. Reduced technical debt by 40%.
- Owned modernization and cloud migration strategy for legacy components; delivered multi-phased roadmap covering data migration, service decomposition, and operational transition.

Cloud Platform & Operational Excellence

- Designed security, compliance, and operational patterns for regulated financial environments (SOX, audit controls, data residency).
- Implemented observability using ELK stack; established dashboards reducing critical incidents by 30% and MTTR by 45%.

- Led platform resilience initiatives: high-availability patterns, circuit breakers, graceful degradation, disaster recovery. Achieved 99.95% availability SLA.

Technical Leadership & Mentorship

- Mentored cross-functional teams (8+ engineers) on system design, cloud adoption, DevOps practices, and distributed systems patterns.
- Led architecture design sessions and PoCs with stakeholders to validate high-risk technical assumptions.

Technologies: Java, Spring Boot, Microservices, AWS (S3, Lambda, RDS, CloudFormation, CodePipeline, DynamoDB), Kubernetes, Docker, API Gateway, SQS/SNS, Event-driven patterns

Senior Software Engineer

Dec 2013 – Feb 2022

Wells Fargo — Disputes Automated Tracking (DAT)

- Built automated CI/CD pipelines (Jenkins, AWS CodePipeline) reducing release cycle from weeks to days; cut deployment failures by 25% and deployment time by 40%.
- Designed and deployed observability infrastructure (ELK stack) with real-time dashboards; reduced critical incidents by 30%.
- Drove quality improvements through automated testing frameworks and code review standards; reduced post-release defects by 35%.
- Led cloud migration initiative decomposing monolithic Java applications into microservices on AWS (ECS/EKS); successfully migrated 10+ services.
- Contributed to architecture discussions on scalability, security, and performance; mentored junior engineers on design patterns and cloud-native best practices.

Technologies: Java, Spring Boot, Jenkins, uDeploy, ELK, Docker, AWS (ECS, EKS, Lambda, RDS), Terraform, Kubernetes, Event Streaming

Software Engineer

Oct 2011 – Dec 2013

E2Open — eCustoms (Supply Chain Platform)

- Delivered features for supply-chain management platform (Java/Spring MVC) supporting multi-country regulatory compliance and document management.
- Contributed to system design documentation, UML diagrams, and architecture discussions with stakeholders.
- Participated in code reviews and quality initiatives; built unit tests and integration tests.

Technologies: Core Java, Spring MVC, JSP/Servlets, JPA/Hibernate, Oracle SQL, UML, JUnit

TECHNICAL SKILLS

Architecture & Strategy: Architecture Governance, Design Reviews, Non-Functional Requirements (Security, Reliability, Performance, Cost), Modernization Roadmaps, Well-Architected Frameworks (AWS, Azure), Architecture Decision Records (ADRs), Domain-Driven Design, Microservices Patterns, API Design & Governance

Cloud Platforms: AWS: CloudFormation, S3, Lambda, RDS, DynamoDB, API Gateway, CloudFront, VPC, IAM, CodePipeline, CodeBuild, CloudWatch, Azure: App Service, Azure DevOps, Azure Monitor, Virtual Networks, Identity & Access Management

Distributed Systems: Microservices Architecture, Event-Driven Design, Message Queues (SQS, SNS, RabbitMQ), Service Mesh, Kubernetes & Docker, CI/CD Orchestration

DevOps & Observability: CI/CD (Jenkins, AWS CodePipeline, GitHub Actions), Infrastructure-as-Code (CloudFormation, Terraform), ELK Stack (Elasticsearch, Kibana, Logstash), CloudWatch, Container Orchestration (Kubernetes, Docker)

Programming: Java (Spring Boot, Spring Cloud, Microservices Patterns), Python (Scripting, Data Processing), JavaScript/Node.js, Bash/Shell, SQL

Leadership: Cross-Functional Collaboration, Stakeholder Alignment & Communication, Team Mentorship & Capability Building, Agile & Scrum Practices, Technical Writing & Documentation, Presentation & Facilitation Skills

EDUCATION

Post Graduate Diploma in Artificial Intelligence & Machine Learning

2021 – 2023

BITS Pilani, Hyderabad, India

Bachelor of Technology (B.Tech) in Computer Science

2007 – 2011

Jawaharlal Nehru Technological University (JNTU), Hyderabad, India