

CHANDRAKANTH ANNE

ENTERPRISE APPLICATIONS ARCHITECT

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EXECUTIVE PROFILE

Enterprise Applications Architect with 20+ years translating business priorities into secure, resilient platforms across financial services, utilities, storage, infrastructure, and integration. Leads architecture from target state and HLD/LLD through delivery and operational readiness, with depth in microservices, API security, cloud platforms, data orchestration, infrastructure automation, and engineering governance. Applies generative AI and AI-assisted engineering to accelerate architecture analysis, documentation, prototyping, and delivery within clear security and governance guardrails. Known for embedding controls into automation and connecting architecture decisions to measurable outcomes.

ARCHITECTURE EXPERTISE

Architecture & modernization: Enterprise and solution architecture; target-state roadmaps; HLD/LLD; microservices; SOA; API-first design

Security & integration: Keycloak; OAuth 2.0; JWT; NGINX/API gateways; REST; Kafka; JMS; BPEL; XML/XSLT; IBM WID/WPS

Cloud & platform engineering: Kubernetes; OpenShift; AWS; Azure; CI/CD; GitHub; Jenkins; Ansible; infrastructure automation

AI-enabled engineering: Generative AI and LLM patterns; prompt engineering; AI-assisted SDLC; RAG/vector search; governed engineering automation

Data, storage & engineering: Oracle; MongoDB; PostgreSQL; MySQL; SQL Server; PowerFlex/ScaleIO; SAN/NAS; Java; Python; Go; TypeScript; Rust

Leadership & delivery: SAFe/Agile; architecture governance; roadmap planning; stakeholder alignment; team leadership; release management

SELECTED ARCHITECTURE & BUSINESS IMPACT

~2 MINUTES

Reduced governed block, file, and object storage provisioning from weeks to approximately two minutes using a 25% client entitlement model.

40%

Improved utility billing efficiency through CIS platform integration while architecting microservices-based smart-meter billing flows.

\$350K

Generated initial cost savings through team integration, capacity alignment, and delivery planning.

PROFESSIONAL EXPERIENCE

VSP360 Billing Reconciliation Engine / Platform

Jun 2025 - Present

Technical Architect

Architecting an enterprise billing ETL and reconciliation platform with Kubernetes deployment, modern API security, and production-ready operating controls.

- Defined authentication and authorization architecture using Keycloak IAM, OAuth 2.0/JWT, NGINX API Gateway patterns, and internal/external consumer trust boundaries.
- Produced HLDs, LLDs, solution and sequence diagrams, and infrastructure/deployment architecture to guide implementation and stakeholder decisions.
- Guided Kubernetes modernization, scalable integration, service security, operational readiness, and Test-Driven Development adoption across delivery teams.

Citi - Enterprise Automation & Storage Modernization

Mar 2020 - Jun 2025

Technical Architect and Lead

Led architecture and modernization across enterprise storage, backup, migration, compliance, and cloud-native automation initiatives.

- Designed a policy-driven self-service platform for block, file, and object storage using a pre-approved entitlement equal to 25% of each client's initial allocation; reduced eligible provisioning from weeks to approximately two minutes.
- Defined PowerFlex/ScaleIO automation strategy, service interfaces, policy validation, exception approvals, delivery roadmaps, consumption tracking, and auditable provisioning workflows.
- Designed self-service backup and recovery patterns using API Gateway, JWT, Kafka, MongoDB, microservices, and CI/CD controls.
- Led modernization strategies spanning Chef-to-Ansible migration, VMware and NAS automation, OpenShift adoption, GitHub onboarding, capacity planning, validation, monitoring, and reporting.
- Authored HLDs, LLDs, BRDs, solution guides, delivery plans, and governance artifacts across storage, monitoring, ServiceNow, compliance, and remediation programs.

CoServ, Corinth, TX

Oct 2016 - Mar 2020

Architect & Application Development Manager

Directed architecture and delivery for utility billing, smart-meter, service-order, new-service, and customer applications while leading cross-functional Agile teams.

- Architected a microservices-based smart-meter billing flow that dynamically ingested automated and ad hoc readings, applied validation and billing rules, and generated customer bills through the CIS platform.
- Delivered a customer billing release that improved billing efficiency by 40% through integration with the CIS enterprise data model platform.
- Architected service-order automation, request/response and retry flows, AWS interactions, workflow orchestration, and continuous integration patterns.
- Increased release predictability by 20%, reduced the defect backlog by 30%, and generated an initial \$350K in cost savings through stronger delivery governance, root-cause analysis, team integration, and capacity planning.
- Led product owners, architects, technical leads, development, and QA teams through SAFe planning, dependency management, hiring, and release execution.

CoServ, Corinth, TX

Jan 2010 - Sep 2016

Senior Developer / Integration Architect - Electronic Service Orders, IWATS

Designed utility workflows for connection, disconnection, repair, construction, design review, invoicing, and accounting.

- Designed BPEL business processes, reusable SOA modules, interfaces, maps, and business-object transformations using IBM WID/WPS.
- Built orchestration services, WSDLs, XML request/response flows, EJB components, and Oracle/ESB/J2EE integrations for enterprise workflow processing.

Motorola

Jan 2009 - Jan 2010

Team Lead / Senior Developer - RM Platform

Led design and development for a media-resource platform orchestrating ingest, transcode, distribution, estimating, and work-order workflows.

- Led a four-member team delivering SOA integration modules, UML designs, Spring MVC interactions, Hibernate mappings, orchestration logic, and reusable backend services.

EARLIER EXPERIENCE

XO Communications, Plano | Senior Developer | Nov 2007 - Jan 2009: Provisioning flows for Ethernet, VPN, NNI, and MACD services using Spring, Hibernate, JMS, web services, Oracle, WebSphere, XML, and PL/SQL.

Integrasys, Frisco | Lead Developer | Jul 2006 - Nov 2007: Bill-payment processing, JMS queueing, monitoring, web modules, session beans, Oracle, and application-server deployments.

Carreker, Dallas | Developer | Feb 2005 - Jun 2006: ATM profit-and-loss reporting, transaction analysis, surcharge/interchange calculations, WebLogic, SQL, and Cognos reporting data.

AT&T, Dallas | Lead Developer | Sep 2003 - Feb 2005: Order-processing automation with FileNet BPM, Java/J2EE, WebSphere, Oracle, IBM MQ, UML, SQL/PLSQL tuning, production support, and reporting.

TECHNICAL PUBLICATIONS & INDEPENDENT ENGINEERING

Designing a Memory-Mapped Cache Engine - Production-oriented Rust architecture covering immutable mmap generations, checksummed records, indexing, bounded recovery, compaction, TTL, backpressure, and million-record qualification.

Enterprise MFA Architecture - Identity and API security architecture using Keycloak, OAuth 2.0, JWT, MFA flows, gateway enforcement, and modern platform trust boundaries.

EDUCATION & CERTIFICATION

Bachelor of Engineering, Electronics and Instrumentation | Sun Certified Java Programmer