Summary

Results-driven software professional with 12+ years of experience in the financial services sector, specializing in cloud-native solutions, microservices architecture, and full-stack web development. Proven expertise in designing scalable enterprise applications using AWS, container orchestration, CI/CD automation, and modern web frameworks. Strong background in driving digital transformation, technical leadership, and end-to-end solution delivery.

Experience

Technology Lead – Capital Group Companies (Infosys Limited)

Irvine, USA | Feb 2022 – Present

Project: *MAPS - Multi Asset Portfolio System (New Application with AWS solution)*

- Designed the architecture for the MAPS application and led proof-of-concept (PoC) efforts to validate cloud-native solutions using AWS.
- Authored detailed architecture diagrams, comprehensive developer guides, and technical documentation in Confluence, including future-state proposals.
- Led development of MAPS inbound/outbound interfaces, coding and unit testing.
- Mentoring the offshore team through design reviews, code reviews, and best practices.
- Built microservices in ☐Python (FastAPI, Uvicorn, SQLAlchemy, Boto3) and ☐Java (Spring Boot, Hibernate, Jackson, AWS SDK).
- Developed a custom ☐PySpark driver program and framework to orchestrate small-scale ETL pipelines consuming daily CSV feeds
- Containerized applications using Docker (with Chain-guard base images), aligning with enterprise security standards.
- Architected and deployed cloud-native infrastructure using ☐AWS ECS Fargate, SQS, SNS, Lambda, API Gateway, and Aurora serverless global.
- Architected and deployed application on AWS services - ECS Fargate, SQS, SNS, Event-bridge, Lambda, API Gateway, and Aurora Serverless Global.
- Conducted PoC to deploy services on multi-tenant ☐EKS clusters. Created terraform Configuration for Cluster provisioning, OIDC setup. Namespace isolation, IAM Roles for Service Accounts (IRSA). Ingress controllers, K8s Ingress object to define routing rules. Release with Helm charts for environment-specific deployments. Logs, custom metrics and traces forwarding to Datadog agent. Instrumentation with OpenTelemetry. Supported future migration strategy for the organization's Helix Mothership initiative by aligning MAPS architecture with Helix standards.
- Designed and documented a regional disaster recovery plan, enabling seamless failover between primary and secondary AWS regions.
- Secured APIs using Okta ☐OAuth2.0/OpenID Connect and managed TLS certificates with internal Py module Nomos and Venafi. Publishing cert to AWS ACM.
- Remediated ☐vulnerabilities flagged in CI pipelines by Wiz and Snyk scans
- Creating technical JIRA and effort estimation. Attending daily scrum/standup call.
- Designed JSON payload/schemas for ☐event-driven interfaces via AWS EventBridge, and defined API contracts for partner integrations.
- Created relational data models for inbound/outbound modules of MAPS.
- Developed Infrastructure as Code (IaC) using ☐AWS CDK (CloudFormation stacks) and later on upgraded ☐ ☐Terraform configuration to provision resources for AWS and ☐Kafka resources (topics, replication, consumers-group-id, schema).
- Upgraded CI/CD pipelines using ☐Harness SaaS to align with Helix Banzai delivery models.
- Built an Angular-based interface dashboard to monitor inbound/outbound processing and developed custom metrics exposed to Datadog
- Enhanced observability with CloudWatch dashboards, ☐Datadog monitors, and xMatters alerts for proactive incident response.
- Collaborating with partner's migrations from RabbitMQ to Kafka and Mulesoft API to AWS ALB.
- Communicating with Application Platform team, Network team and Security team to set up OAuth client credential flow, MFT setup, Mulesoft API keys, etc.
- Supported production operations, including application monitoring, incident response, and release coordination.
- Supporting engineers for FSR application (another application in ADO umbrella) for any technical challenges.

Technology Analyst / Technology Lead – Capital Group Companies (Infosys Limited)

Pune, India | Feb 2021 – Jan 2022

Project: *TACT - TargetDateFund Allocation and compliance Tool (Technical Upgrade)*

- Served as a senior offshore developer responsible for modernizing a legacy, performance-constrained enterprise application.
- Upgraded the tech stack - migrated from Java 7 to Java 11, leveraging Java Streams for functional and efficient data processing.
- Replaced the legacy Struts2 MVC framework with SpringBoot, enhancing modularity and maintainability.
- Upgraded Hibernate from v3 to v5; implemented JPA repositories with Spring Data and custom queries using native SQL and HQL.
- Configured transaction-scoped `EntityManager` with varying isolation levels (Read Committed, Repeatable Read) to ensure data integrity.
- Secured RESTful APIs with OAuth2 and SSL, aligning with enterprise security protocols.
- Optimized performance by tuning SQL, introducing caching for static content, batching API calls, and applying eager loading strategies.
- CI/CD pipeline by upgrading existing Bamboo build jobs and XLD deployment scripts.
- Participated actively in Agile ceremonies including daily stand-ups and sprint planning.

Technology Analyst / Technology Lead – Capital Group Companies (Infosys Limited)

Irvine, USA | March 2020 – Jan 2021

Project: *FSR - Fund Sale and Redemption (Angular Migration)*

- Modernized the legacy application UI by migrating from Adobe Flash to Angular 12 for a responsive and accessible user experience.
- Implemented state management using NgRx (Redux pattern) for scalable and maintainable frontend logic.
- Applied reactive programming principles to handle asynchronous backend API integration using RxJS observables.
- Developed reusable Angular components, services, and custom observables to support modular development.
- Built template-driven and reactive forms with custom directives and validation logic.
- Adopted Angular Material for consistent UI/UX and adherence to design standards.
- Containerized the Angular application using Docker and configured static hosting via NGINX.
- Contributed to CI/CD automation by creating Bamboo build plans and XLD deployment packages.
- Participated in Agile development practices including daily stand-ups, sprint planning, and retrospectives.

Technology Analyst / Technology Lead – Capital Group Companies (Infosys Limited)

Irvine, USA | Nov 2018 – Feb 2020

Project: *TACT - TargetDateFund Allocation and compliance Tool (BAU)*

- Resolved severe performance bottlenecks by analyzing Java-based application with profiling tools, optimizing database interactions, and tuning connection pools—improving throughput from 2 min to 1 sec.
- Implemented second-level allocation logic - After CIT fund allocation, computed new target allocation percentages for CIT-temp fund Allocation.
- Implemented CIAM Canadian funds with SWIFT-based communication (MT502, MT541/542, MT202/210, MT515, MT509).
- Established secure messaging infrastructure using IBM MQ with two-way SSL and collaborated with API platform teams for integration.
- Planned development activities, estimated effort, and maintained tracking using JIRA.
- Developed a Java Swing-based simulator tool to generate inbound SWIFT messages for integration, testing and fast forward development.
- Created a monitoring dashboard (JSP) to visualize message traffic, including arrival times, publication latency, and pending message.
- Supported production deployments, incident response
- Participated in release planning and coordination with client stakeholders and downstream systems.
- Also Migrated authentication flow from legacy CyberArk/LDAP-based access to OAuth2.0 via Okta Identity Provider.

Senior System Engineer – Capital Group Companies (Infosys Limited)

Irvine, USA | Mar 2017 – Oct 2018

Project: *OPAC - Order Processing and Compliance (BAU)*

- Performed coding, unit testing, and peer code reviews to deliver high-quality features for java based application.
- Participated in Agile ceremonies at the client location including sprint planning, daily stand-ups, and retrospectives.
- Collaborated closely with Business System Analysts (BSAs) and clients to gather and refine business requirements.
- Assessed existing systems and proposed enhancements aligned with modern technologies and performance improvements.
- Researched and evaluated appropriate technologies to ensure alignment with project goals and enterprise standards.
- Provided production support by replicating and debugging issues in development environments.
- Conducted root cause analysis on post-implementation issues and implemented timely, effective fixes.

Senior System Engineer / System Engineer – Capital Group Companies (Infosys Limited)

Pune, India | Feb 2014 – Feb 2017

Project: *COPS - CRMC Order Processing System*

- Developed ▯REST-ful APIs using Java Spring MVC to replicate equity orders from parent to child accounts. (Vehicle-Axioma)
- Performed API testing using ▯Postman and SmartBear tools for functionality and reliability.
- Contributed to the Cirrus cloud migration initiative (client's internal cloud infrastructure).
- Built secure service integrations to retrieve secrets from ▯CyberArk safes and vaults.
- Migrated version control systems from Perforce to ▯Bitbucket for better collaboration and integration.
- Transitioned build and deployment processes to Atlassian ▯Bamboo build pipeline and ▯XLDeploy for improved CI/CD automation.
- Utilized ▯Flyway for database versioning and migration management.
- Conducted a proof-of-concept (POC) for ▯JMS-based asynchronous messaging to integrate with the upstream OIS system.
- Optimized batch job performance—reduced processing time from 45 minutes to 7 minutes by minimizing redundant database calls and eliminating unnecessary logic.
- Java profiling with tools - ▯Jhat, ▯Jvisual and ▯MAT (memory Analyzer tool). Resolve java OutofMemory Error without increasing heap.
- created separate cache server
- Actively participated in Agile ceremonies including sprint planning, daily stand-ups, and retrospectives.
- Engaged in design reviews and peer code reviews to ensure quality and alignment with architectural standards.
- Diagnosed and resolved production issues by replicating bugs in development environments and performing root cause analysis.

System Engineer – Infosys Limited

Pune, India | April 2013 – Jan 2014

Project: *Finacle Migration - State Bank of India*

- Contributed to Infosys ▯Finacle, a core banking solution platform, as part of the global SBI migration program.
- Executed Finacle version upgrade from 7.x to 11.x across 25 international branches of the State Bank of India (SBI).
- Developed interactive menu-driven forms using ▯HTML and ▯JavaScript for enhanced user experience.
- Customized backend automation scripts using Finacle scripting language, similar to Unix ▯shell scripting, for data processing and business workflows.

Software Engineering Trainee – Infosys Limited

Mysore, India | Aug 2012 – Mar 2013

- Completed foundational training on software development lifecycle (SDLC), Agile practices, and core software engineering principles.
- Gained hands-on experience with ▯Java programming and object-oriented design
- Created web project with technologies including HTML, CSS, JavaScript, ▯JSP, and the ▯Spring MVC framework.
- Received RDBMS training focused on ▯PL/SQL, query optimization, and database design fundamentals.
- Acquired functional and architectural understanding of the Infosys Finacle banking product suite.

Education

Bachelor of Technology in Computer Science and Engineering – Maharaja Surajmal Institute of Technology, GGSIPU, New Delhi, India (2012)

Lekhraj Dinkar

Solution Engineer | Technology Lead

 Irvine, CA, USA

 +1 (469) 493 5272

✉
Lekhrajdinkarus@gmail.com

 LinkedIn

 GitHub

Skills

Aws cloud

- security services - IAM, KMS, ACM, secret manager
- Storage and Database - S3, Aurora postgresSQL, global serverless, dynamodb
- serverless microservice and event driver architecture with SQS, SNS, EventBridge and Lambda
- networking with VPC, ALB, API Gateway, Route 53
- Container orchestration with ECS, EKS and ECR

Programming languages

- OOPS and Functional styling programming with - Python, Java, typescript
- Bash scripting
- PL/SQL

Deployment and release

- Containerization with Docker, Kubernetes with Helm charts
- Orchestration with AWS ECS, EKS
- Continious delivery pipeline

with Harness and AWS CodePipeline
- Infrastructure as Code IAC with Hashicorp Terraform and HCP cloud
- AWS Cloud development kit and CloudFormation stack

Backend and middleware

- Python packages - FastAPI, PySpark, Pandas, SQLAlchemy, boto3
- Frameworks - Spring boot web, spring JPA data, Spring Security, Hibernate
- RESTful Services secured with OAuth2.0, JWT, TLS cerytficates.
- Architecture - Microservices, Domain-Driven Design, event-driver architecture
- ETL Pipelines - data Ingestion & Transformation with PySpark, Spring Batch
- Messaging Systems - Confluent Kafka, RabbitMQ, IBM MQ
- PostgreSQL (Aurora Global), Oracle, Complex SQL queries

Frontend

- Frameworks - Angular 17, Angular Material, reactive RxJS and Angular redux NgRx
- Styling - SCSS, HTML5

Process

- Methodologies - Agile/Scrum, SDLC, Production Support, Release Management
- Technical Documentation, Stakeholder Engagement, Team Collaboration
- Code Reviews, Mentoring, Technical Design Sessions