

VISHNU MANOHAR

Technical Lead | AWS Architect | Full-Stack Java | 16+ Years

Technical Lead with 16 years of architecting and building full-stack Java systems across fintech and healthcare. Led cross-functional teams of 10+ in a VP-level engineering role at Citi, modernizing legacy applications on Red Hat OpenShift for global Forex trading. Founded and scaled a healthcare tech startup end-to-end — building the team, owning product delivery, and architecting cloud-native microservices on AWS. Combines hands-on technical depth with the business fluency to align engineering roadmaps to company strategy.

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HIGHLIGHTS

- Led a team of 8 on Citi FX Velocity 3.0, a Forex trading platform recognized with 80+ industry awards, aligning engineering execution with product and business goals.
- Translated complex business and operations requirements from finance stakeholders into microservices architecture, designing frontend-backend data flows for order, pricing, and blotter systems.\
- Architected a micro-frontend solution using RxJS to integrate independently hosted modules within FX Velocity, coordinating with 10+ cross-functional teams across regions on integration design and delivery.
- Authored technical proposals for leadership sign-off and presented roadmaps and delivery progress across governance calls, serving as the primary link between engineering execution and business stakeholders.
- Founded and led a 5-person team building a social platform for doctors, nurses, and healthcare professionals — owning product, engineering, and go-to-market from concept to launch.
- Iterated on product direction based on direct user feedback, gaining hands-on experience in user acquisition and product-market fit challenges unique to healthcare.
- Architected and built the entire cloud infrastructure for the healthcare platform on AWS — using Cognito for authentication, API Gateway, Lambda, and EC2 for a mixed serverless/traditional backend, S3 for file storage, and MySQL and DynamoDB for relational and NoSQL data needs.
- Engineered three production applications on microservices and serverless cloud infrastructure spanning financial content delivery, search, and real-time Forex order processing.
- Designed a centralized ELK-based logging system for FX Velocity, unifying tracing across frontend and downstream services — reducing the number of people required for issue triage and cutting cross-timezone delays in identifying root causes.

TECHNICAL SKILLS

AWS | Java | Spring | Angular

Cloud & Infrastructure: AWS (EC2, Lambda, API Gateway, Cognito, S3, VPC, IAM, CloudFormation), Red Hat OpenShift, Docker, Kubernetes

Languages & Data Formats: Java, JSON, REST, WebSocket, HTML/CSS

Databases: DynamoDB, MongoDB, Elasticsearch, MySQL, Oracle SQL

Frameworks: Spring Core, Spring Boot, Spring Security, Spring Data, Angular

Tools: Maven, Gradle, Git

CI/CD: Jenkins, TeamCity

Messaging & Streaming: Kafka, SNS, SQS



WORK EXPERIENCE

Technical lead 05/2024 - current

Virtusa Corporation | Citi bank, US

- Drove architectural evolution of bond settlement systems, leading the transition from legacy Java and SQL stored procedures to a resilient microservices platform — improving scalability, fault tolerance, and long-term maintainability.
- Partnered with Business Analysts and cross-functional stakeholders to translate complex settlement workflows into well-structured technical solutions aligned with market and regulatory requirements.
- Architected inter-system communication patterns for reliable settlement data exchange across upstream and downstream platforms, ensuring accurate and consistent trade lifecycle processing.
- Built and optimized high-performance backend services using Spring Framework and Oracle DB, maintaining data integrity and stability under high-volume financial transaction loads.
- Delivered key business enhancements including a new LATAM settlement flow, managed CI/CD pipelines via Harness to OpenShift, and ensured controlled production releases.
- Acted as the primary L3 escalation point, coordinating cross-team efforts to resolve critical production issues and maintain platform reliability and operational continuity.

Technical lead 01/2024 - 05/2024

SwitchLane, US

- Decomposing monolithic applications into independently deployable microservices, crafting Python-driven Lambda functions to handle user authorization, file uploads, and report generation.
- Designing and securing JSON-based REST APIs through API Gateway, leveraging DynamoDB and Lambda to enforce access control and protect application endpoints.
- Re-architecting and lifting legacy Spring and Java systems onto EC2, refactoring shared application logic into cloud-native serverless components across Lambda and S3.

Technical Skills

AWS S3, SQS, EC2, Lambda, API Gateway, AWS deploy, Java, Spring, DynamoDB, GIT

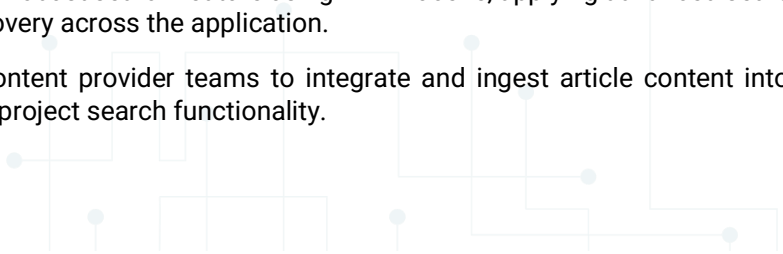
Vice President 06/2021 - 01/2024

Citi Bank India

- Collaborated continuously with business and product teams to define project scope, set clear quarterly objectives, and establish progressive delivery targets aligned with organizational priorities.
- Managed and mentored a team of engineers, fostering a high-performance culture through clear direction, motivation, and accountability — ensuring quality delivery across all project milestones.
- As Scrum Master, bridged the gap between business and engineering by translating complex requirements into technical scope, building work schedules, and driving end-to-end project delivery.
- Re-architected a legacy Spring application onto OpenShift cloud infrastructure, leveraging Docker containerization and microservices design patterns to significantly improve scalability, reliability, and performance.
- Modernized the frontend architecture by implementing micro front-end services in Angular, resulting in a more modular, maintainable, and independently deployable UI layer.

Cloud Specialist 07/2020 - 06/2021

Tek systems | Fidelity Investments

- Automated infrastructure provisioning using AWS CloudFormation templates and managed content storage pipelines across S3 buckets with Lambda functions, reducing manual overhead and improving deployment consistency.
 - Architected and delivered a robust search feature using AEM Lucene, applying advanced search indexing concepts to enable fast, relevant content discovery across the application.
 - Partnered with multiple content provider teams to integrate and ingest article content into a unified search experience, achieving seamless cross-project search functionality.
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Self-Entrepreneur 09/2015 - 07/2020

Medspeer Healthcare Technologies

Have started a product development from 2015 and registered the company in 2018 as a streamlining process.

- Conducted pilot user interviews and feedback sessions to shape product direction, translating real customer expectations into a feature-rich application roadmap.
- Established delivery milestones and drove continuous releases of enhanced functionality, iteratively improving the product and elevating the overall customer experience.
- Built and led a high-performing engineering team from the ground up, establishing development standards, fostering a culture of innovation, and instilling strong engineering processes.
- Designed and architected a scalable, secure microservices application using Spring MVC and Angular, optimizing data performance with MongoDB and powering intelligent search with Elasticsearch.

Senior Software Engineer 08/2014 - 09/2015

Larsen & Toubro Infotech, India

- Developed full-stack features for Caterpillar using Angular on the frontend, Spring on the backend, and MySQL for data persistence, delivering end-to-end functionality across the application.
- Implemented and maintained Jenkins CI pipelines for automated testing, quality assurance, and branch management, ensuring code stability and consistent delivery standards.

Programmer Analyst 10/2010 - 08/2014

Cognizant Technology Solutions

- Worked within the Emerging Business Accelerator group, evaluating client use cases across IoT, Data Science, RPA, and Machine Learning to develop proof-of-concept applications, and conducted customer interviews and floor walks to shape product roadmaps.
- Built a document search and indexing solution for MetLife by integrating SharePoint with Solr via ManifoldCF, and designed the front-end browsing and search interface.
- Developed a general-purpose text mining API capable of converting any document format to plain text with minimal processing time, alongside optimized database queries, procedures, and functions for complex data retrieval.

Systems Trainee

Infosys Technologies

EDUCATION

Bachelor of Technology in Biotechnology, Anna University, Chennai – 2009

For further insight into my architecture decisions, project work, and collaborative style

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