

Mukesh Gulia

Technical Lead

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Professional Summary

Transformative technology leader with over 15 years of experience across high-tech, banking, finance, government, and the real estate sector. Accomplished in architecting and delivering mission-critical applications, leading high-performing teams, and driving digital transformation. Expert in a diverse range of programming languages, frameworks, and cloud platforms, with a strong focus on DevOps, CI/CD, and building scalable solutions from the ground up. Currently shaping technology strategy and execution in the real estate industry.

Work History

Technical Lead

Cotality Australia

Jul 2022 - Present

- Lead and mentor a team of 12 developers and QA engineers, achieving 95% team retention rate and reducing onboarding time by 40%
- Pioneered AI adoption by developing MCP servers for automated property image analysis, enabling real estate agents to generate comprehensive property summaries and insights with 90% accuracy
- Implemented agentic AI solutions integrating computer vision and natural language processing, reducing property analysis time from 2 hours to 15 minutes and improving agent productivity by 75%
- Managed end-to-end delivery of 8+ concurrent projects under RP Data, delivering \$2M+ in revenue-generating features on schedule
- Architected scalable microservices solution processing 50M+ real estate records daily, improving system throughput by 300%
- Drove digital transformation by migrating 15 legacy applications to cloud-native architecture, reducing infrastructure costs by 45%
- Implemented CI/CD pipelines reducing deployment time from 4 hours to 15 minutes and achieving 99.9% deployment success rate
- Established coding standards and review processes, increasing code quality metrics by 60% and reducing production bugs by 70%
- Optimized system performance by refactoring critical data processing modules, reducing response time by 65% and memory usage by 40%
- Mentored 6 junior developers through structured training programs, resulting in 100% promotion rate within 18 months
- Led test automation initiatives achieving 85% code coverage and eliminating 100% manual testing work, reducing release validation time from 6 hours to 30 minutes

Skills

Backend

Java | Python |
Spring Ecosystem

Frontend

React | JavaScript

AI Adoption

MCP | Agentic AI

Testing

TDD | BDD |
Playwright |
JMeter | NeoLoad

Architecture

Integration
Patterns |
Microservices
Patterns

DevOps

Gitlab | Jenkins |
Terraform |
CDKTF

Cloud

AWS | GCP |
Azure

Containers

Docker |
Kubernetes
(AKS/EKS)

Certifications

Azure Solution Architect Expert

AWS Solution Architect
Professional

Scrum PSM II

PMI PMP

PMI ACP

Spring Boot Certified

Lead Software Engineer

EPAM, Brisbane - Client: Google

Oct 2021 - Jul 2022

- Led end-to-end software delivery efforts of Supply chain management for Google cloud centers
- Wrote standalone Java services with gRPC communication between various internal Google services and processed data using Apache Beam
- Designed a new service to detect mutants in unit tests, improving test quality and productivity for code review process by 30%
- Fully automated bi-yearly pipelines using Google internal CI tools such as Blaze, Piper, Critique, and Rapid
- Increased code coverage to 98%, which raised the test coverage rank of the project to the top ten within the entire Google code base
- Collaborated with a global team of developers to design and implement new features for the Supply chain integration
- Coached team members and stakeholders on agile mindset, code quality, best practices, and balancing technical debt with application roadmap
- Handled client escalations and managed team members' expectations
- Communicate with multiple API teams to solve daily connection issues in development and testing environments

Senior Software Engineer

EPAM, Singapore - Client: UBS

Sep 2019 – Oct 2021

- Re-designed risk platform services into separate spring boot microservices that are deployable at AKS and horizontally scalable
- Designed the UI and created several global risk web portal React components
- Changed user authentication to Azure AD and authorized users through custom Azure Graph API
- Led the refactoring and cloud migration efforts of the entire project
- Drastically improved batch processing performance (time and memory) by outsourcing process to on-demand Kubernetes pod
- Changed application service to Azure Cache for Redis instead of in-memory EHcache
- Developed positions adapter to source data from upstream systems and provide API to enrich data of positions and portfolios
- Led migration from on-premises Oracle to Azure-managed PostgreSQL database, improving application performance and huge cost savings on Oracle licenses
- Migrated source code from GitHub to GitLab and rewrote CI/CD pipelines that were earlier in Jenkins
- Azure DevOps pipelines triggered from Jenkins Build to build docker images and deploy to AKS
- Created infrastructure code and provisioning resources through Ansible

Education

Bachelor's Degree

Major: Information Technology

Notable Work

Designed Interactive 2 player chess game in partnership with computer graphics' professor

Organized inter-college coding contests

- Facilitated sprint planning, daily scrums, retrospectives, reviews, SoS, backlog grooming, and other stakeholder meetings

Software Engineer

TCS, Singapore - Client: Deutsche Bank

Jan 2011 – Sep 2019

- Developed backend framework for several feeds sourcing using Factory pattern and merged over 50 standalone feed utilities into a single parametrized service
- Built several reports in Axiom for Malaysia and India
- Introduced Intra-Day reporting functionality in the Axiom tool, thus allowing migration of crucial reports from Cognos to Axiom
- Reduced L2 operations by 50% by designing the online module to re-submit the failed reports
- Reduced development errors by adding custom check styles and automating the code reviews process through SonarQube
- Designed logging and archival using PL/SQL procedures and structured them into proper packages
- Piloted CI/CD tools, such as Cucumber, that could help develop, review, and test
- Provided development solutions to production defects raised by operations for a front-end interface that accepts manual/scheduled reports inputs and CRUD operations for static data
- Supported Level 3 production with an SLA of less than 4 hours
- Improved software performance by 30% by re-engineering archival strategy for old data and logs
- Improved database performance during peak time by identifying pain areas from AWR reports
- Improved the backend services performance using JDK profiling tools such as Visual VM
- Created a commons library in Java that provided standard features such as database communication, file transfers, email, JMS messaging, parsers etc
- Wrote Junit test suites for integration testing and performed peer code reviews on CollabNet
- Created JMS subscribing daemons, XML, JSON, CSV parsers, and other programs as required
- Created backend services in spring, such as file pollers and JMS subscribers

Assistant Systems Engineer

TCS, India - Client: Income Tax, Indian Government

Apr 2008 – Jan 2011

- Created java back-end engine for reading various types of tax returns and calculate income tax
- Reduced production incident escalation by providing defect free delivery for over 2 years
- Prepared JUnit test cases for java components developed other self and other team members
- Identified, and fixed bugs at UAT and production and provide support for implementation teams

- Organized software usage training for high-rank government officials in different states
- Created lessons learnt from production defects and best practice documents