

Inzemam Baig

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PROFESSIONAL SUMMARY

Cloud Specialist and Senior Backend Engineer with 7+ years of experience designing, deploying, and optimizing scalable cloud-native applications on AWS and GCP. Proven expertise in containerization (Docker, Kubernetes), infrastructure as code (Terraform), and CI/CD pipelines. Strong background in microservices architecture, performance optimization, and implementing secure, compliant cloud solutions for enterprise applications.

WORK EXPERIENCE

Senior Software Developer

Jan 2024 – Present

Infosys, Bangalore

- Architected and deployed microservices on AWS using Java, Spring Boot, and PostgreSQL for high-volume banking applications
- Led monolith-to-microservices migration, improving system scalability and deployment frequency by 30%
- Containerized applications using Docker and orchestrated with Kubernetes on AWS, ensuring high availability
- Implemented infrastructure as code using Terraform, reducing provisioning time from days to hours
- Optimized JVM performance and database queries, reducing response latency by 20%
- Established API security standards, encryption protocols, and compliance controls

Senior Java Developer

Oct 2021 – Dec 2023

Cognizant, Bangalore

- Secure Cloud Data Migration for Healthcare: Led the migration of sensitive healthcare data from on-premise systems to Google Cloud Platform (GCP) for Agilent Technologies, a US-based client.
- Compliance & Security Focus: Designed and executed the migration strategy with a primary focus on HIPAA compliance, ensuring all data handling, storage, and transfer processes protected Patient Health Information (PHI) and met stringent data privacy laws.
- Regulatory Alignment: Collaborated with compliance teams to validate that the new cloud environment and data workflows adhered to relevant healthcare regulations, mitigating risk and ensuring auditability.
- Collaborated with US-based technical teams to validate data post-migration, ensuring a seamless transition and accessibility for downstream analytics and reporting.
- Designed and implemented event-driven architecture using Apache Kafka for real-time data processing
- Built cloud-native microservices ensuring seamless inter-service communication and scalability.
- Developed asynchronous task scheduling systems for intelligent data flow automation

Java Developer

Feb 2019 – Sept 2021

Tata Consultancy Services, Ahmedabad

- Developed backend modules using Spring and PostgreSQL to automate tax return processing.
- Improved performance by 20% via optimized multithreading and JMeter-based load testing.
- Integrated Prometheus for performance monitoring and bottleneck detection.

Python Developer

July 2018 – Jan 2019

Lets Nurture, Ahmedabad

- Built a Python Flask-based geolocation service converting coordinates into human-readable location codes.

SKILLS

Cloud/DevOps	Google Cloud Platform (GCP), AWS (Lambda, EC2, S3, RDS, Secrets Manager), Kubernetes, Docker, Jenkins, Terraform, CI/CD Pipelines, Grafana, Prometheus, ELK Stack
Backend	Java, Spring Boot, Hibernate, RESTful APIs, Microservices, AOP, Python, Bash, Design Patterns, Event-Driven Architecture.
AI/ML:	Retrieval-Augmented Generation (RAG), Semantic Search, AWS Bedrock, LLM Integration, Intelligent Automation.
Database	PostgreSQL, MongoDB, MySQL, NoSQL, Query Optimization
Tools & Others	Maven, Git, Agile/Scrum, Apache Kafka, Groovy, Data Structures & Algorithms, Jira

KEY PROJECTS

Banking System Modernization & Cloud Migration

Senior Java Developer in Infosys

- Banking System Modernization & Microservices Migration
- Led end-to-end migration of monolithic banking application to cloud-native microservices architecture
- Developed 15+ microservices containerized with Docker and orchestrated with Kubernetes on AWS
- Implemented Terraform for infrastructure automation, reducing provisioning time by 80%
- Achieved 40% improvement in system resilience and independent deployability

Secure Healthcare Data Migration to Google Cloud

Cognizant Technology Solutions

- Spearheaded the end-to-end migration of sensitive healthcare data from on-premise databases to Google Cloud Platform (GCP) for Agilant Technologies, a US-based healthcare client.
- Engineered and implemented data transfer protocols with a core focus on HIPAA compliance, ensuring the confidentiality, integrity, and security of all Protected Health Information (PHI) throughout the migration lifecycle.
- Collaborated with US-based technical and compliance teams to validate that the new cloud architecture and data handling processes adhered to stringent data governance policies, mitigating risk and ensuring full audit readiness.

Intelligent Document Processing with RAG & Semantic Search

Senior Java Developer in Infosys

- Architected and implemented an AI-powered document search system using Retrieval-Augmented Generation (RAG) to enable intelligent querying of a large internal knowledge base.
- Integrated AWS Bedrock and advanced embedding models to power semantic search, improving information retrieval accuracy by 35% compared to traditional keyword search.
- The system automated the resolution of common client queries, reducing the average handling time for support tickets by 25 minutes.

Cloud-Native Tax Processing System

Java Developer in TCS

- Developed and maintained the VAT 14 return module using Spring and PostgreSQL.
- Conducted load and performance testing using JMeter and Prometheus to analyze system CPU/memory bottlenecks.
- Engineered modules with optimized multithreading and async task execution to support faster data retrieval.
- Insights from reports enabled optimizations that improved application performance by 20%.

Geolocation Service – What3Words-style App

Python Developer at Let's Nurture

- Built a geolocation service using Python, Flask, and geohashing.
- Wrote Python scripts for data extraction and transformation for DevOps reporting.
- Designed REST APIs to convert coordinates into user-friendly location words.

EDUCATION

2014– 2018

Bachelor of Technology (B.Tech)

Institute of Technical Education and Research, Siksha 'O' Anusandhan (SOA) University, Bhubaneswar, India
GPA - 8.6

CERTIFICATIONS

- **AWS** Certified Cloud Practitioner
- **MongoDB** Certified Developer – SI Architect
- **Atlassian Jira** Essentials Certification
- **Google Cloud:** Deploy Multi-Agent Systems with Agent Development Kit (ADK) and Agent Engine
- **Java: Infosys** Certified Java SE8 Developer