# Zia Ul Haq Mohammed

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#### Education

University Of Central Missouri
Master of Science in Computer Science
CMR Institute Of Technology

Bachelor of Science in Computer Science

Warrensburg, MO Jan. 2024 – Aug 2025 Hyderabad, India Aug. 2016 – Nov 2020

## Experience

Software EngineerMar 2020 – Dec 2023CapgeminiHyderabad, India

- Developed and maintained Spring Boot microservices using Java for Domestic and International Payments, Funds Confirmation, and Account Information services as part of a large-scale banking system modernization, ensuring compliance with PSD2/Open Banking standards and contributing to a 30% improvement in performance with a focus on security, scalability, and reliability.
- Implemented robust **API rate-limiting** strategies to prevent abuse, ensuring consistent availability and improved system resilience during peak traffic.
- Integrated message queuing systems such as RabbitMQ to enable reliable, asynchronous communication between microservices.
- Refactored legacy **monolithic applications** into modular, independently deployable **microservices**, enhancing scalability and reducing downtime.
- Automated database migrations using Flyway, enabling seamless schema changes with zero service interruption.
- Implemented **blue-green deployments** to facilitate zero-downtime production releases, improving the user experience during rollouts.
- Designed fault-tolerant microservices using patterns such as **retry logic**, **timeouts**, and **bulkheads**, increasing reliability in unstable network environments.
- Integrated secure authentication and authorization mechanisms using **OAuth2** and **Single Sign-On (SSO)**, streamlining user access across distributed systems.
- Designed and implemented high-performance RESTful APIs, reducing average response times by 25% through efficient request
  handling and optimization.
- Utilized Spring Cloud components like Config Server and Eureka Discovery Server for centralized configuration and service discovery.
- Optimized data access using Spring Data JPA and caching mechanisms, resulting in a 35% improvement in database interaction performance.
- Contributed to the development of **React-based frontend pages** for payment, collaborating closely with UI teams to ensure seamless integration with backend APIs.
- Leveraged Apache Kafka for asynchronous event-driven communication, reducing inter-service latency by 25%.
- Implemented end-to-end security using Spring Security and JWT, ensuring secure data transmission across services.
- Deployed microservices on AWS Kubernetes (EKS), automated CI/CD pipelines with Jenkins, and monitored systems using Prometheus and Grafana.
- Developed comprehensive unit and integration tests using JUnit and Mockito, maintaining high code quality and test coverage.
- Documented APIs using Swagger/OpenAPI and created detailed architecture diagrams, enhancing developer onboarding and collaboration.
- Actively contributed to Agile practices, including sprint planning, daily stand-ups, and retrospectives, enabling iterative and continuous delivery.
- Mentored junior developers through code reviews, technical guidance, and best practice enforcement, fostering a culture of high-quality development.

## **Technical Skills**

Languages: Java, JavaScript, TypeScript, Python, SQL

Frameworks: Spring Boot, Spring Security, Spring Cloud, Spring Batch, JPA, Hibernate, Spring Data, React, Mockito Web & Integration: HTML, CSS, Tailwind, JSON, XML, SOAP, JDBC, REST/Web Services, Kafka, Redis, Postman, Swagger/OpenAPI

Databases: Relational Databases, Non-Relational Databases, MySQL, PostgreSQL, MongoDB

CI/CD & Cloud: Maven, Jenkins, Git, AWS (EC2, S3, RDS), Linux, Bitbucket, Docker, Bash Scripting, Kubernetes Methodologies & Practices: Agile, Microservices Architecture, Event-Driven Architecture, Object-oriented programming, Functional programming, Clean Code, RESTful APIs, TDD, Generative AI

### Awards and Achievements

- Received Rising Star Award or having good technical knowledge and overall performance
- Received client appreciation for exceptional delivery and support of microservices handling critical payment and account information workflows.