

# Md Saddam Khan

✉ [saddam8101.sk@gmail.com](mailto:saddam8101.sk@gmail.com) | 📞 8101579291  
🌐 [github.com/Safa-Tech-Dev](https://github.com/Safa-Tech-Dev) | [linkedin.com/in/mdsaddamkhan](https://www.linkedin.com/in/mdsaddamkhan) | [safa-tech.vercel.app](https://safa-tech.vercel.app)

## Skills

**Programming Languages:** Core Java, Java 8

**Backend:** Springboot, Spring Data JPA/Hibernate ORM, Microservices, REST APIs

**Databases:** SQL, MySQL

**DevOps:** AWS, Docker, Kubernetes, Jenkins, Git, Gitlab, GitHub, Prometheus, Grafana

**Tools & Technologies :** Tomcat, Kafka, Maven, Junit 5, Mockito, Swagger, Jira, Confluence, SonarQube

**Core Subjects:** Data Structures and Algorithms

**Miscellaneous:** Design Patterns

## Work Experience

**Quest Global, Bangalore**

Feb 2024 - Present

**Senior Software Engineer | Java, Springboot, Microservices, JPA/Hibernate, Docker, Kubernetes**

- Built a scalable cluster management platform(Elastic Edge) to reduce manual steps in node creation, cluster provisioning, profile deployment, and firewall configuration, streamlining workflows for end users and platform engineering teams.
- Reduced manual effort by 90% by implementing backend services in Java + Spring Boot to handle API-based cluster and node provisioning.
- Increased deployment consistency by 65% by enabling profile-based deployments, allowing pre-defined configurations to be applied across clusters with minimal human input.
- Enabled flexible firewall management by developing APIs that allow users to apply or update firewall rules on-demand, enhancing security control without coupling it to cluster provisioning.

**Infosys, Bangalore**

Aug 2022 - Jan 2024

**System Engineer | Java, Springboot, Microservices, JPA/Hibernate, AWS, Kafka, Docker, Kubernetes**

- Delivered key modules in the New Revenue Management System project at Infosys, contributing to the modernization of billing and invoicing workflows for a global banking client, resulting in a 30% reduction in revenue reconciliation time and 25% improvement in operational accuracy.
- Enabled real-time data processing by developing Kafka-based Publisher and Consumer components, which reduced data processing latency by 35% and enhanced event-driven workflows.
- Enhanced monitoring and storage capabilities by integrating AWS services like S3 and CloudWatch, resulting in 20% faster issue detection and resolution.
- Increased unit test coverage to over 85% using JUnit and Mockito with SonarLint and SonarQube, leading to higher test reliability and 15% fewer defects in QA.
- Accelerated deployment cycles by 40% by contributing to CI/CD pipelines in Azure DevOps, improving development-to-production turnaround time.

**Cognizant Technology Solutions, Kolkata**

Feb 2021 - Aug 2022

**Programmer Analyst | Java, Springboot, Microservices, JPA/Hibernate**

- Contributed to "GuestStay360", an end-to-end Hospitality Management System for a global hotel/resort chain, enabling core modules like booking, check-in/check-out, guest profiles, and loyalty rewards using Java and Spring Boot.
- Improved booking efficiency by 40% by developing RESTful microservices in Java + Spring Boot to handle real-time room reservations, availability checks, and pricing rules.
- Reduced guest check-in time by 30% by implementing and integrating a self-service check-in API with external identity verification and loyalty validation modules.
- Achieved 85% unit test coverage across booking and guest profile modules by writing robust test cases using JUnit 5 and Mockito, ensuring code reliability and reducing production bugs.

## Education

**Bengal College of Engineering and Technology**

B.Tech in Electronics and Communication Engineering

Aug 2016 - Jun 2020

**CGPA: 8.51/10**

## Project Work

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### ***Hotel Booking Management System* | Java, Springboot, Microservices, JPA/Hibernate, Thymeleaf**

- Developed a full-stack Hotel Booking Management System using Java and Spring Boot, resulting in 40% faster booking operations and reduced manual errors.
- Implemented user authentication (login/logout, registration), securing user profiles and improving data privacy.
- Designed a booking history page, allowing users to view and manage their previous bookings, enhancing user experience.

## Awards and Certificates

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- Received a Certificate of Appreciation at Quest Global for outstanding contribution and dedication towards team success and project excellence
- Received the 'On the Fly' Award at Quest Global for taking swift action and delivering impactful solutions under tight timelines.
- Achieved AWS Certified Cloud Practitioner certification, validating foundational knowledge of AWS cloud concepts, services, and best practices.
- Completed ChatGPT Prompt Engineering Course from Learn.DeepLearning.AI, gaining hands-on skills in crafting effective prompts to build powerful AI applications using ChatGPT.