

# RAHUL DUTTA

JAVA DEVELOPER

## Career Profile

I aim to utilize my proficiency in Java, Spring Boot, Hibernate, RESTful web services, and API development to create scalable, high-quality software solutions. With a strong focus on implementing microservices architecture, I strive to enhance system performance and contribute to project success. Seeking a collaborative and dynamic environment that encourages skill growth and innovation.

## Experience

## Technical Expertise

- 1. Programming Languages:** Excel in **Core Java 8** and utilize it as the primary language for developing robust and efficient applications.
- 2. Spring Frameworks:** Master **Spring Boot, Spring MVC, Spring Data JPA, Spring Security** to build scalable, secure, and highly performant applications.
- 3. Hibernate:** Acquire expertise in **ORM, HQL, entity mapping, and caching** to ensure efficient and optimized database operations.
- 4. Web Technologies:** Develop **RESTful APIs** and effectively handle JSON data to enable seamless communication between client and server applications.
- 5. Database Systems:** Gain proficiency in working with **MySQL** and **Oracle database**.
- 6. Testing:** Utilize **JUnit** for comprehensive and reliable unit testing to ensure the quality and stability of the developed software.
- 7. Version Control:** Utilize **Git** as a version control system to effectively manage source code, track changes, and collaborate with other developers.
- 8. Build Tools:** Employ **Maven** as a build automation tool to streamline the build process manage dependencies, and enhance project efficiency.
- 9. Deployment:** Utilize **AWS (Amazon Web Services)** for deploying applications, ensuring scalability, high availability, and efficient resource management.
- 10. IDEs and Development Tools:** Proficiently use popular IDEs such as **Eclipse, IntelliJ IDEA, and STS** to enhance productivity and streamline the development workflow.
- 11. Agile Development:** Adapt to **Agile methodologies**, particularly the **Scrum process**.
- 12. Security:** Implement **JWT (JSON Web Token)** for secure authentication and authorization, ensuring data confidentiality and integrity in applications.
- 13. Third-Party API Integration:** Integrate various third-party APIs, such as **payment gateways, SMS services, WhatsApp, OTP** etc to enhance the functionality and features of applications.
- 14. Microservices:** Employ **Spring Cloud API Gateway and Eureka Servers** to design develop, and deploy scalable and loosely coupled microservices architectures.

## Reach me



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## Education

**B.tech in West Bengal**  
University of Technology 2016-2020

## IT Skills

- Core Java
- Advance Java
- SpringBoot
- Hibernate
- Rest API
- MicroServices

## Projects:

Company Name: ADVAITA SOFTWARE

Employment Dates: 2020-02-13 - 2023-07-22

## Details:

Develop Backend Using API For Costa Cruises .

Total Projects: 1

## Achievements

- Successfully implemented a real-time cabin availability feature, reducing booking errors and improving the overall customer experience.
- Developed a dynamic pricing module that allowed for personalized pricing based on factors such as travel dates, cabin type, and passenger demographics, resulting in increased revenue.
- Implemented an automated email notification system for booking confirmations and updates, resulting in improved communication with customers and reduced manual effort.

## Challenges

- Overcame the challenge of integrating the booking system with existing legacy systems, ensuring seamless data exchange and compatibility.
- Managed and resolved performance issues related to high traffic periods, optimizing the system's response time and ensuring a smooth booking experience for customers.
- Addressed complex business rules and requirements specific to the cruise industry, such as managing multiple cabin types, excursion options, and onboard amenities.

## Professional Expertise

1. **Spring Boot:** Develop and maintain **Spring Boot** applications to build efficient and scalable backend systems for various services, such as cruise & flight management, booking, and customer support.
2. **Hibernate JPA:** Use **Hibernate JPA** to handle object-relational mapping and interact with the database systems. Design and implement entity mappings, database schema changes, and optimize query performance in Costa Cruises & Delta Air Lines.
3. **API Development:** Build and maintain **RESTful APIs** to enable seamless communication between different systems and services within Costa Cruises & Delta Air Lines.
4. **Spring Security:** Implement **Spring Security** to ensure secure access and protect sensitive information within Costa Cruises' & Delta Air Lines applications. Configure authentication and authorization mechanisms, handle user roles and permissions, and integrate with external identity providers.
5. **Java 8:** Utilize **Java 8** features and libraries to develop robust and efficient code for various cruise functionalities in Costa Cruises & Delta Air Lines.
6. **AWS:** Deploy and manage applications on the **AWS cloud platform**. Utilize **AWS services such as EC2, S3, RDS, and Elastic Beanstalk** to ensure scalability, high availability, and cost-effectiveness in Costa Cruises & Delta Air Lines.
7. **JWT Token:** Implement **JWT (JSON Web Token) authentication and authorization mechanisms** to secure Costa Cruises applications and services in Costa Cruises & Delta Air Lines.
8. **Microservices:** Design, develop, and maintain microservices-based architectures using **Spring Cloud API Gateway and Eureka Servers**.
9. **Git:** Utilize **Git** as the version control system to manage source code, collaborate with other developers, and ensure proper code branching, merging, and release management in Costa Cruises & Delta Air Lines.
10. **Testing:** Write unit tests using **JUnit** to ensure the reliability and correctness of the developed software in Costa Cruises & Delta Air Lines.
11. **Collaboration and Communication:** Actively participate in **agile development processes**, such as **Scrum**, by attending daily stand-ups, sprint planning, and retrospective meetings in Costa Cruises & Delta Air Lines.

## Declaration

I affirm my 2.5 years of experience as a Java Developer, demonstrating expertise in Java programming, software development, and problem-solving. Committed, skilled, and enthusiastic to contribute to impactful projects.