

# Mritunjoy Roy

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## OBJECTIVE

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A proficient Java developer with 4 years of industry experience, adept at designing, implementing, and maintaining Java-based applications. Proficient in utilizing Java frameworks such as Spring and Hibernate to develop efficient and scalable software solutions. Skilled in database management systems like MySQL. Seeking to leverage expertise in Java development to tackle complex challenges, optimize code performance, and contribute to the success of cutting-edge projects within a forward-thinking organization.

## EDUCATION

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### **Bangladesh University of Engineering and Technology**

B.Sc in Computer Science and Engineering(Passing Year: 2021)

### **Notre Dame College, Dhaka**

Higher Secondary Certificate(Passing Year: 2015)

## WORK EXPERIENCE

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### **REVE Systems**

Software Engineer(July 2021 - Present)

### **SSD-Tech**

Software Engineer(March 2021 - June 2021)

## TECHNICAL SKILLS

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**Programming Languages** : JAVA, PYTHON, C++, C, PHP, CSS, JavaScript, TypeScript, Vue.js, Matlab, ShellScript

**Frameworks** : Spring Boot(Java), Struts(Java), Laravel(PHP)

**Database** : MySQL, Oracle

**Developer Tools** : Git, Maven, Postman

## PROFESSIONAL PROJECTS

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### **Airtel Advantage Platform** (*Spring Boot, Vue.js, MySQL*)

- Working in this project for Bharti Airtel Limited's wholesale voice, SMS and DID(virtual number) service digitization at REVE Systems.
- Developed customer panel with VUE JS, Java(Spring Boot) and CRM with Java(Struts), JSP
- Designed and developed signup, login, Voice/SMS/DID client onboarding modules. Integrated Airtel's third party business partner via API communication while onboarding a new client.
- Implemented graphical dashboard, graphical voice and SMS traffic analytics with data filtration, performance and usage report of voice and SMS traffic.
- Used advanced caching mechanism for viewing voice call details, SMS message history, SMS authorization history of large scale data in customer panel and CRM.
- Implemented downloading large scale data of voice and SMS traffic records in csv file format optimizing memory usage.
- Implemented email reading and sending by Jakarta-mail library, Microsoft Exchange Web Service API and Microsoft Graph API.
- Developed agreement module which includes creating new agreement template with replaceable keywords, pushing new agreement to client, preview agreement pdf in customer panel, saving updated agreement file with replaced keyword after accepting by client, update credit limit after accepting credit limit type agreement.

- Designed and developed DID(virtual number) subscription module which includes rate management, inventory management, order management, unsubscribe number as well as auto renewal, trunk management, DID call details report.
- Designed and implemented notification management module which includes respective notification settings for customer and CRM, pushing new notification after an event, monitoring micro services, sending periodic voice and SMS performance metrics as notification, notification logs report of customer and admin in respective panel.
- Developed client recharge module which includes recharging wallet, updating credit limit through agreement push, taking payment documents from customer, blocking wallet for specific service, generating low balance alert, recharge history log etc.
- Implemented activity log management, ticketing module where client can open and reopen ticket for specific service.
- Developed followup scheduler program such as sign-up validation followup, agreement request followup, CDR validation followup, recharging wallet for starting service followup etc.
- Did code maintenance for performance improvement, production bugs fixation, code documentation.
- Converted our old DID CRM which was previously built JAVA Struts framework to Spring boot(back-end) and VUE.js(front-end) application
- **Click here** to watch promotional video of this product's customer panel made by Bharti Airtel Limited.

#### **DID(Virtual Number) Providers' API Integration** *(Java)*

- Integrated API of DIDWW, DIDXL, Telserv which are DID number providers. System buys virtual number from providers and sells to it's customers.
- Developed DID subscription module. Integrated address registration part sending encrypted files to DIDWW endpoint. Developed scheduler program for refund(in case rejection of address verification), auto renewal and unsubscription.

#### **CI/CD Pipeline** *(Docker, Jenkins)*

- Designed and implemented a robust CI/CD pipeline using Jenkins and Docker to automate the build, test, and deployment processes for a Spring Boot web application.
- Containerized the Spring Boot application using Docker, ensuring consistent environments across development, testing, and production stages.
- Integrated Jenkins with GitHub to enable automatic triggering of builds and deployments upon code commits, improving development efficiency.

### ACADEMIC PROJECTS

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#### **Online Vasha Shikkha** *(PHP, Laravel Framework)*

- Four groups of students worked to develop an online based cross language learning platform.

#### **Television Channel Management** *(Java, Oracle Database)*

- All documents and records of a TV channel can be stored in this database. The artists and employees of a TV channel can use this RDBMS to know information easily.

#### **Automated Traffic Light Controller** *(Java, ATMEGA32 Microcontroller)*

- Used LDR sensor to measure the intensity of light and IR sensor to detect the movement of traffic. The lights ahead of the traffic is turned on if the intensity of light is below a threshold.

#### **Chat Messenger** *(Java, JavaFX)*

- It was a simple chat messenger where active users and most communicated IDs were shown.

#### **Bow and Arrow Shooting Game** *(IGraphics, C)*

- Developed a simple archery game using IGraphics Libraries in C language.

### PROBLEM SOLVING

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- Solved more than 300 leetcode problems.