



# ADITYA CHAKRABORTY

Software Engineer

Enthusiast in Software Development, Machine Learning and Automation.

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## WORK EXPERIENCE

### System Engineer TCS

08/2020 - Present

Kolkata, India

Enterprise App Development (Backend)

- Worked on REST APIs, SQL, JDBC and Spring Framework for switching from MVC Architecture to RESTful Architecture in Insurance CRM Suite. Built Angular components to consume the REST APIs and orchestrate an FE application.
- Implemented **RBAC(Role Based Access Control)** for API Security using JWT as authorisation token.
- Worked on Node.js and Nest.js to setup a **BFF Framework** connecting the Frontend (Angular app) to Backend Apps and 3rd Party Services.
- Designed custom **Transaction Management Framework** to implement Unit Business Transactions and check impact of each Transaction on business on execution and reversal of said transaction.
- Worked on a **SpringBoot JSON Formatter Application** to implement an inhouse file format Converter for JSON, Excel, Java POJO, XML using Apache POI and Jackson.
- Orchestrated a **Query Generator Tool** for OracleDB using Node.js increasing DB Related task efficiency by 40%. This was done using BFS Graph Traversals of the ERs in the schema to establish Join conditions between the different Entities in the schema and store as JSONs. These JSONs were then exposed for usage in various pipelines, streamling tasks.
- Designed a **Data Pipeline** to produce Real-time data on activity in Legacy Insurance Application using Apache Kafka. The produced topics from the pipeline were then consumed by Lucene implementation API, Analytics APIs and logging APIs.

## EDUCATION

### B.Tech in Electrical Engineering(EE) Netaji Subhash Engineering College, MAKAUT

06/2016 - 07/2020

Kolkata, India, CGPA: 8.21

### XII - ISC

#### Ram Mohan Mission High School

03/2015 - 04/2016

Kolkata, India, Grade: 90%

## SKILLS

Java

JavaScript

JBoss

RDBMS

SQL

Postgres

OOP

Spring

Spring Web

Spring MVC

Hibernate

JPA

REST API

Spring Boot

NodeJS

Github

Docker

## PERSONAL PROJECTS

### Tourism Website (09/2022 - 12/2022)

- Built a dynamic Tourism Website using basic HTML, CSS, Javascript and Bootstrap for Frontend and PHP in Backend. Hosted using free hosting service of InfinityFree. Domain: <https://visitdarjeeling.in>

### Library Management System (04/2023 - Present)

- Built a Library Management System in Java using Spring Boot, JPA, Postgres, H2 Database and Thymeleaf.

## ACHIEVEMENTS

### On The Spot Award

Received On The Spot Award for overall contribution towards my Team and efficient Product Delivery, at TCS.

### 2\* on LeetCode

Solved 100 Questions in LeetCode

### SIH 2019 Hardware Edition

Team Lead of Team SIMBAA for Smart India Hackathon 2019 - Hardware Edition. Qualified till 2nd Round for Prototype: Dual Control Dual Alert Remote Surveillance System.

## LANGUAGES

English

Full Professional Proficiency

Bengali

Native or Bilingual Proficiency

Hindi

Professional Working Proficiency

## INTERESTS

Sports

Technology