Kiran Ghosh

*Java Backend Developer with Spring Boot Expertise* Email: [ghoshkiran2018@gmail.com](mailto:ghoshkiran2018@gmail.com)

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# Education

**Jalpaiguri Government Engineering College** Jalpaiguri, India

*Bachelor of Technology – Information Technology; GPA: 8 Aug 2018 - June 2022* ***Courses:*** *Data Structures and Algorithms, Object Oriented Programming, Competitive Programming, Database Management System, Big Data,* ***Cloud Computing****,* ***System Design(LLD & HLD)****,* ***Microservices****.*

# Skills Summary

* **Programming Languages**: C++, JAVA, SQL.
* **Frameworks**: **Spring**, **Spring Boot**.
* **Tools**: Qlik Sense, Snowflake, Teradata, MySQL
* **Cloud Platforms :** *Microsoft Azure, AWS*
* **Techniques: System Design (LLD & HLD)*, Data Modeling****, Data Filtering, Data Visualization*

# PROGRAMMING PROFILE

* 530+ Questions in **Leetcode** – Link.
* 270+ Questions in **Geeksforgeeks** – Link.

# Experience

**Cognizant Bangalore, India**

Programmer Analyst Aug 2022 - Present

## Java (Spring Boot) Backend Developer.

* + *Design, code, test, and maintain backend services and* ***APIs*** *using Java and* ***Spring Boot****.*
  + *Develop and manage database schemas, write* ***SQL*** *queries, and work with* ***Object- Relational Mapping (ORM)*** *frameworks to ensure efficient data storage and retrieval.*
  + *Create and maintain* ***RESTful APIs*** *that enable seamless communication between the frontend and backend systems and with* ***Microservices****.*

## Designed a searching algorithm which helped the testing team to figure out missing/duplicate data saving around 80% workload.

*Intern* Feb2022 – June 2022

Data Analysis using **Qlik Sense**:

* + **Designing** and **building data models** to **extract, transform, and load** data from various sources into **Qlik Sense**. Reduce the no. of tables by joining/ concatenating tables which **reduces complexity** by around **25%.** All **backend** work is done using **Qlik Script.** Prepare a suitable **Data Model** and with a suitable **Star/Snowflake schema** and make flexible, interactive dashboards (**Data Visualization**) as per requirement.

Working on **Snowflake:**

* + **Creating** tables and **loading** data and **transform** the data as required.
  + Working with different data sources to check the flow of data using **Snowflake**.

# Projects

Railway Ticket Reservation System:

* + ***Low Level Design (Backend)*** *of a* ***Spring Boot app*** *where users can search trains according to journey dates and book from various class of tickets, cancel booked tickets and get refunds, admins can add and modify train details*
  + ***Designed SQL database*** *for different services (****Microservice Architecture****), created database using* ***Spring Data JPA*** *and*

***Hibernate*** *and implement* ***role-based authentication using Spring Security****.*

* + *Developed train search and ticket booking system, time period based refund, history of bookings and refunds sections for normal users,* ***CRUD*** *operations for admin users, help section where users can raise queries and admins and use* ***REST API’s and Eureka server for connecting two Microservices.***

## System Design of a Ride Booking app:

* + ***OOP*** *implemented* ***Low Level Design*** *in C++.*
  + *The ride will take the* ***shortest time*** *to arrive its destination (****implementation of Dijkstra’s Algorithm****);*

# CERTIFICATION

* + **Azure Fundamentals** (**AZ900**) || provider – **Microsoft** - LINK
  + **Azure Data Fundamentals** (**DP 900**) || || provider – **Microsoft** - LINK
  + **Programming**, **Data Structures and Algorithms using Python** || provider – **NPTEL(IIT Madras)**
  + **Java Explorer** || provider – **Oracle** - LINK