BHUPATHI MURALI KRISHNA
Software Development Engineer

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PROFESSIONAL EXPERIENCE

AMAZON   **Chennai, India**
Software Development Engineer Intern   **Jan 2023 - June 2023**

- Primarily worked on the implementation part of two features integrating with the new service, the OTACentral Website.
- Involved in design review meetings and learned about the basics of design for new features which were introduced while migrating from one service to a new service and resolved some issues.
- Found the root cause for one of the APIs receiving a sudden spike (more requests than usual) and took necessary action by creating a POC action item.

Selected Project Experience

- Bulk Device Move Project
    - Implement the design in Java which reduces the 10 - 20 SIM tickets which reduces load for on-call engineers.
    - Introduced notification service through email for the user. The user will receive an email notification when the request is created and completed/failed.
    - Partnered with a mentor to implement APIs to create new requests for device move and get the details of the given request ID.
    - Created the UI Components using react for the Bulk device move feature and integrated it with the existing website so users can use it to create new requests and get the request details.

PROJECTS

FLIGHT RESERVATION MANAGEMENT SYSTEM   **DEC 2023 - FEB 2024**

Architected and developed a robust comprehensive Flight Reservation Management System utilizing microservices architecture powered by Spring Boot framework. This project aimed to streamline the flight booking process and enhance the flexibility and maintainability of user experience within the aviation industry.

Key Features :
User Registration and Login, Search Flights, Book Flight and Check-in.

Contribution :
- Designed and implemented RESTful APIs for communication between microservices, ensuring loose coupling and high cohesion.
- Integrated Spring Security for implementing authentication mechanisms, ensuring secure access to system resources.
- Utilized Spring Data JPA for efficient data presentation and management and deployed the services using AWS EC2 and s3 (storing jar file).

Technologies: Java, Spring Boot, RESTful Practices, MySQL, AWS EC2 and s3 container

ALGORITHM VISUALIZER   **Mar 2023**

The main aim of the project is to understand how sorting algorithms work internally, using a good interface we can show how a given set of data is sorted using different algorithms with different time complexities.

Technologies: HTML, CSS, JavaScript.

SKILLS

Front-end: HTML, CSS, JavaScript, React.
Back-end: Java, C/C++, python (Intermediate), MySQL, Spring Boot.
Cloud: AWS - s3, Cognito, Lambda, EC2, DynamoDB.
Tools: Git, Vim, IntelliJ IDEA.

EDUCATION

SATHYABAMA UNIVERSITY

Bachelor Of Engineering in Computer Science

CGPA: 9.28

Chennai, TN

JUNE **2019 - May 2023**

SRI CHAITANYA JUNIOR COLLEGE

Senior Secondary (Pre-Engineering) Mathematics, Physics, Chemistry

CGPA: 9.92

Vishakapatnam, AP

2017 - 2019

COURSES

Data Structures and Algorithms, Object Oriented Programming, discrete Maths, Database Management Systems, Operating Systems, RESTful API.

ACHIEVEMENTS

- I got 2nd place in a coding contest which is conducted in college (SIST CODE-VERNA).
- Got top 2% in Python for data science NPTEL Certification Exam among 3500+ participants.