

BHUPATHI MURALI KRISHNA

SOFTWARE DEVELOPMENT ENGINEER

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Professional Experience

Software Development Engineer Intern, Amazon , Chennai

Jan 2023 - Jun 2023

- One of the API receive sudden spike in requests, by checking the logs of service using **grep commands and python script** found the root cause (which device type causes this spike) and took necessary actions by creating POC action item.
- Primarily worked on the implementation part of two features integrating with the new service, the OTACentral Website.

Selected Project Experience

- Implemented a **bulk device** transfer feature enabling users/customers to upload files with device IDs and types and automating the movement of devices from a public to a private pool. This solution reduced **10-20 SIM tickets**, significantly decreasing on-call workload for engineers.
- Introduced and implemented **Notification Service** through email for the user. The user will receive an email notification when the request is created and completed/failed.
- Faced with the manual task of tracking devices during pool transfers, collaborated with a mentor to design and implement the **Device Tracker Automation** feature, enabling automated device verification by the tracking service. This solution received team and managerial approval, streamlining the transfer process and reducing engineering workload.
- Developed UI components using **React** for the Bulk Device Move feature and seamlessly integrated them into the existing website, enabling users to create new requests and view request details efficiently.

Projects

Flight Reservation Management System

[Github Repo](#)

- We have developed a comprehensive Flight Reservation Management System using Spring Boot microservices architecture.
- 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).

Algorithm Visualizer

- 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.

Education

B.E in Computer Science and Engineering

Jun 2019 - May 2023

Sathyabama Institute of Science & Technology, Chennai

CGPA: 9.13/10

Senior Secondary (Maths, Physics, Chemistry)

Aug 2017 - March 2019

Sri Chaitanya Junior College, vizag , Andhra Pradesh

CGPA: 9.92/10

Technical Skills

Front-end:HTML, CSS, JavaScript, React.

Back-end: Java, Go, SpringBoot, SQL, C++, AWS-S3, DynamoDB, Cognito, Lambda, IAM.

Tools: Git, IntelliJ IDEA, Vim.

Technical: Data Structures & Algorithms, Object-Oriented Programming, Operating System, Database Management Systems and Software Development.

Academics Accomplishments & Extracurricular

- I got **2nd** place in a coding contest which is conducted in college (**SIST CODE-VERNA**).
- Certified in Go (Basic) [HackerRank-Certificate](#)
- Completed **NPTEL** Certification in Operating Systems, Design and Analysis of Algorithms, Problem-solving through programming in C, Programming in C++ and Python for Data Science.
- Got top **2%** in Python for data science NPTEL Certification Exam among **3500+** participants.