

# Karengula Dinakar

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## Experience

### CGG(Center for Good Governance)

July 2023 – Present

Full Stack Developer – Java, Spring Boot, Microservices, PostgreSQL, React

Hyderabad, India

- Designed and implemented **Restful APIs** for the 'Mobile Apps' ensuring robust functionality and flexibility.
- **Integrated JWT-based authentication and role-based authorization**, improving security and reducing unauthorized access incidents by **95%**.
- **Introduced caching with Redis** for frequently accessed data, cutting down database hits and improving response speed by **50%**.
- **Refactored monolithic code into microservices, resulting in 30% faster deployment cycles and better team parallelization.**
- Integrated email and SMS notifications for key user events like ticket creation, password reset, and account updates.
- Developed Rest APIs for user registration, login, and user profile management, incorporating various CRUD operations for enhanced user experience.
- Architected a reusable **Dynamic Ticketing System** used across multiple projects, boosting user issue resolution efficiency and increasing customer satisfaction by over 60%.
- Provided prompt and sustainable solutions for bugs and issues encountered in the production environment, ensuring smooth operation of the system.

## Projects

### Work Log Tracker | React.js, Spring Boot, Spring Security, Hibernate, PostgreSQL

Github | Live Preview

- Built a **task management** and time tracking platform that allows team leads to assign tasks, track developer work logs, and calculate daily work hours. .
- **Enabled developers to log daily updates**, view assigned tasks, and maintain transparency in team productivity and reporting.
- Applied **pagination, searching, and sorting** functionalities with for better optimization.
- Build role specific APIs for admin and normal user respectively and added **JWT authentication** for securing APIs.

### Dynamic Ticketing System | Spring Boot, Spring Security, Hibernate, PostgreSQL, JavaScript

Github | Live Preview

- **Designed and developed a reusable ticketing module** integrated across multiple projects, enabling users to raise issues or concerns efficiently.
- **Ensured cross-project compatibility**, making the ticketing system a plug-and-play module that can scale with new applications.
- **Integrated email and in-app notifications**, ensuring stakeholders are alerted at each stage of the ticket lifecycle.

## Technical Skills

**Programming Languages:** Java

**Back-end Tech:** Spring Boot, Hibernate, Spring, JDBC

**Databases:** MySQL, PostgreSQL

**Version Control:** Git, GitHub

**Core Subjects:** Data Structure and Algorithm, Operating System, Networking, Database

**Miscellaneous:** Multithreading, Design Patterns, Low Level Design, High Level Design, Microservices, Agile, Kafka

## Achievements

- Solved **200+ Data Structures and Algorithmic** problems on coding platform such as **LeetCode** and **GFG**.

## Education

JNTU college of Engineering Aug 2019 - June 2023

**B.Tech : Computer Science And Engineering(CSE)**

**CGPA : 7.45**