

# Sharanya Jakkula

Computer Science Undergraduate | Passionate About Java, Spring Boot & Backend Development

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## Education

<b>Rajiv Gandhi University Of Knowledge Technologies</b> , RK Valley, AP, India B.Tech in Computer Science, <b>CGPA: 9.19</b>	2022 – Present
<b>Rajiv Gandhi University Of Knowledge Technologies</b> , RK Valley, AP, India Pre-University Course, <b>CGPA: 9.90</b>	2020 – 2022
<b>St. Mary's High School</b> , Nandikotkur, AP, India SSC, <b>CGPA: 10.0</b>	2015 – 2020

## Career Objective

Computer Science undergraduate seeking backend development roles. Experienced in building microservices, REST APIs, and containerized applications using Spring Boot and Docker. Passionate about creating scalable and efficient backend systems.

## Skills

- **Programming Languages:** Java, SQL
- **Frameworks & Technologies:** Spring Boot, Microservices, RabbitMQ
- **API Development:** RESTful API Design, Authentication/Authorization, API Gateway
- **Databases:** PostgreSQL, MySQL
- **Testing Frameworks:** JUnit, Mockito
- **Tools & Platforms:** Docker, Git, Maven, Postman
- **Architecture & Concepts:** Object-Oriented Programming (OOP), Database Management Systems (DBMS), Microservices Architecture

## Projects

### AI-Powered Fitness Application

*Spring Boot, Microservices, PostgreSQL, Keycloak*

Built a cloud-native microservices application with Spring Cloud Gateway, Eureka Server, and centralized configuration. Integrated Google Gemini AI for personalized fitness recommendations and implemented secure authentication with Keycloak. Established asynchronous communication using RabbitMQ and containerized all services with Docker for scalable deployment.

### Real-Time Chat Application

*Spring Boot, WebSockets, STOMP, Docker*

Developed a real-time messaging platform using WebSockets and STOMP protocol for instant message broadcasting. Implemented user connection status indicators and message differentiation features. Containerized the application with Docker and published to Docker Hub for portable deployment across environments.

### JobApp Portal

*Spring Boot, Spring Security, Spring Data JPA, PostgreSQL*

Created a secure job portal with full CRUD operations and keyword-based search functionality. Implemented JWT authentication with Spring Security and role-based access control. Designed RESTful APIs with CORS support and JSON/XML responses for seamless React frontend integration using Spring Data JPA and PostgreSQL.

## Achievements

- **3rd Place** in Technical Hackathon among 20+ teams - Led backend development with Spring Boot & REST APIs
- **Smart India Hackathon Participant** - Developed innovative software solutions for real-world problems
- **Containerized Applications** using Docker for consistent deployment across environments

- **Implemented Secure Authentication** with Spring Security & JWT tokens
- **Architected Microservices** using Spring Cloud, API Gateway, and service discovery

## Certifications

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- **Java, Spring & Microservices** - Udemy (Telusko)
- **SQL Certified** - HackerRank

## Experience

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- **Web Development Intern** – MAANG Technologies *2024 – 2025*
  - Developed Spring Boot REST APIs with Spring Security authentication
  - Containerized applications using Docker for deployment
  - Optimized backend performance and database operations
- **Student Coordinator & Designer** – Alumni Cell, RGUKT *2021-Present*
  - Led alumni events and managed stakeholder communications
  - Created visual assets and marketing materials for events
  - Coordinated event logistics and promotional campaigns