

# SHOVAN KARNA

## FULL STACK DEVELOPER



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## SKILLS

- Java, Python, JavaScript
- HTML, CSS, React.js
- Spring Boot, Maven
- Databases: MySQL, PostgreSQL, Redis
- Version Control & CI/CD: Git, GitHub, Jenkins, Docker
- RESTful API Design, OOP, Microservices

## WORK EXPERIENCE

### Centre for Development of Advanced Computing [CDAC], Hyderabad

[A premier government R&D organization of the Ministry of Electronics and Information Technology (MeitY)]

**Project Associate (May, 2023 - April, 2024), Project Engineer (May, 2024 - Present)**

- **Project Overview:** Collaborated with a development team to design and implement an LMS using advanced web technologies such as Spring Boot, ReactJS, MySQL, and Redis.
- **Architecture & Microservices:** Engineered a microservices architecture with Java and Spring Boot, incorporating complex business logic and functionalities across multiple service layers to ensure robust scalability and high-performance backend services.
- **Database Management:** Utilized Spring Data JPA for database communication, employing both JPQL and Native Queries to optimize data retrieval.  
Managed MySQL databases, executing schema creation, table setup, relationship establishment between multiple tables, and trigger implementation for efficient data management and integrity.
- **Frontend Development:** Utilized advanced features of React.js to design and develop a diverse range of reusable UI components, leveraging its virtual DOM, lifecycle methods, and state management capabilities.  
Led the integration of new features to enhance platform functionality, usability, scalability, and user-friendliness.
- **Backend Development:** Implemented Spring Security to integrate OAuth2.0 authentication via Keycloak, ensuring comprehensive security measures to protect services and data.  
Enhanced the existing codebase by eliminating redundancies and improving component rendering efficiency.
- **Caching Optimization:** Integrated Redis Server for efficient caching of metadata and frequently accessed data, significantly optimizing platform performance.
- **Automation & Deployment:** Implemented shell scripts for automating deployment processes and service auto-initialization on servers.
- Conducted comprehensive testing and staged deployments, ensuring high-quality performance on production servers.
- Streamlined the frontend and backend setup, enabling the LMS platform to seamlessly accommodate a large volume of concurrent users for multiple clients.
- Conducted platform functionality demonstrations and deployment as well to stakeholders and clients, ensuring alignment with project objectives and user requirements.

## EDUCATION

### Bachelor of Technology in Computer Science(BTech)

National Institute of Science and Technology • 2018–2022(9.01 CGPA)

### Higher Secondary Examination(12th)

Sri Chaitanya Techno School • 2016–2018(82%)