

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)

- Collaborated closely with a team of developers to architect and implement a Learning Management System (LMS), predominantly utilizing cutting-edge web technologies like Spring Boot, ReactJS, MySQL, and Redis and others.
- Led feature integration, enhancing platform functionality, usability, scalability, security, and user-friendliness.
- Engineered microservices architecture using Java and Spring Boot, incorporating complex business logic and functionalities across service layers to ensure robust scalability and high-performance backend services.
- Utilized Spring Data JPA to communicate with the database, employing both JPQL and Native Queries for optimized data retrieval.
- Implemented Spring Security to integrate OAuth2.0 authentication via Keycloak, ensuring comprehensive security measures for protecting services and data.
- Integrated Redis Server for efficient caching of metadata and frequently accessed data, optimizing platform performance.
- Deployed schedulers to automate background tasks and enhance platform features, improving overall efficiency.
- Implemented shell scripts for automating deployment processes and service auto initialization on servers
- Utilized advanced features of React.js to design and develop a diverse range of reusable UI components, using its virtual DOM, lifecycle methods, and state management capabilities.
- Optimized the existing codebase by eliminating redundancies, enhancing component rendering efficiency, and implementing robust security measures for safeguarding user-sensitive API communications.
- Managed MySQL databases, executing schema creation, table setup, relationship establishment between multiple tables, and trigger implementation for efficient data management and integrity.
- Conducted comprehensive testing and staged deployments, guaranteeing high-quality performance on production servers.
- The streamlined Frontend and Backend setup enabled the LMS Platform to seamlessly accommodate a large volume of concurrent users for multiple clients.
- Conducted platform functionality demonstrations to stakeholders and clients, ensuring alignment with project objectives and user requirements also managed the deployment of the LMS platform across diverse clients, ensuring smooth and successful deployments.

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%)