Ranjith Reddy Nalla

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TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS, ABAP Programming
Frameworks: Spring Boot, JUnit, Selenium, Spring, Maven, Angular, React
Developer Tools: AWS, Git, Kafka, Docker, IntelliJ, Eclipse, VS Code, JIRA, Agile Methodologies
Core Skills: Data Structures & Algorithms, Databases (DBMS), Low-Level Design

EXPERIENCE

Graduate Research Assistant   Jan 2024 – Dec 2024
Central Michigan University   *Mt. Pleasant, MI*

- Graded assignments for 80 students in Professor Norouzi's Database Management Systems (DBMS) course, ensuring timely feedback and accurate assessment on topics such as SQL query optimization, indexing, and normalization.
- Conducted 5 hours of weekly office hours, assisting students with complex database concepts, including ACID transactions, indexing strategies, and query performance tuning.
- Provided detailed explanations of core DBMS and system design principles, bridging knowledge gaps for 15+ students weekly by covering relational schema design, denormalization trade-offs, caching mechanisms, and scalability techniques.

Software Engineer   Sep 2021 – July 2023
CGI   *Bangalore, India*

- Designed and developed 30+ REST APIs using Spring Boot, integrating with AWS services and Kafka for real-time data processing, streamlining system integration and enhancing operational efficiency.
- Collaborated in 26+ Agile Sprints using JIRA to track development tasks, contributing to iterative development and delivering high-quality solutions.
- Implemented best practices in Spring Security for authentication and authorization, reducing defect rates by 5% and improving code reliability.
- Maintained transparent communication with stakeholders, resolving issues promptly while optimizing deployment through Dockerization, increasing customer satisfaction by 2%.

PROJECTS

Human Resource Management Self-Services | *Java, Spring Boot*   July 2023

- Designed and developed 30 high-performance Web APIs using Spring Boot, integrating AWS services, Kafka, and caching techniques for scalable and real-time data processing.
- Utilized SQL and NoSQL databases for efficient and scalable data management, implementing Spring Security for secure authentication, role-based access control, and leveraging Dockerization for streamlined deployment.

Book My Show | *Java, Spring Boot, REST APIs*   Jan 2025

- Engineered 10 robust REST APIs to facilitate seamless user sign-up, sign-in, movie ticket booking, and additional core functionalities, supporting scalability for 1,000+ active users.
- Implemented JWT Authentication filter to secure all 10 API endpoints, ensuring data integrity and user privacy.

GRILL – Food Delivery Web App | *Java, Spring Boot, Angular*   Dec 2021

- Developed a full-stack food delivery application within 4 weeks, leveraging Java microservices and Angular, implementing Spring Security with JWT authentication and password hashing for secure user management.
- Designed and implemented 8 robust REST APIs using the Spring Boot framework to drive core functionalities, ensuring scalability through containerization and optimizing performance with load balancing.

EDUCATION

Central Michigan University   Mt. Pleasant, MI
MS in Information Systems, Minor in SAP   *Aug. 2023 – May 2025*

ACHIEVEMENTS

Stand out Performer   December 2022
Awarded by CGI for exceeding expectations in back-end development during Q4 2022.   *CGI*