

RAJESWARI KATASANI

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EDUCATION

Master of Science, Computer Science, University of Missouri Saint Louis, USA.

Jan 2023 - May 2024

Bachelor of Technology, Information Technology, Vellore Institute of Technology, INDIA.

Jun 2014 - May 2018

SKILLS

Programming Languages:	Java, J2EE, C++, PYTHON
Application Frameworks:	Spring Boot, JDBC, MVC, JPA, ORM, AOP, Hibernate, Restful, Microservices
Data Management:	MySQL, PostgreSQL, Oracle, ETL Tool
Web Technologies:	HTML, CSS, JavaScript, React
Software Development:	Data Structures and Algorithms, Design Patterns, Agile Methodologies
Development Tools and Servers:	Maven, Gradle, Bit Bucket, Jenkins, Jira, IntelliJ Idea, Eclipse, Visual Studio Code, Apache Tomcat

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, Web Developer – University Of Missouri Saint Louis

Jan 2024 - May 2024

- Implemented a tag-based filtering system enhancing users' ability to navigate through extensive data efficiently, which simplifies information retrieval improving content discoverability.
- Implemented a user-friendly toggle system that allows users to choose how data is displayed which enhances user interaction.
- Worked on exporting the key website features including a user-friendly interactive map from one site to another ensuring map functions worked smoothly on the new site which helps and improves the overall experience of users.

Software Developer - Cognizant Technology Solutions, India.

Aug 2022 - Dec 2022

- Developed and integrated custom APIs using Java and Spring Boot, ensuring seamless interaction between services.
- Adhered to microservices architecture principles to enhance application modularity and scalability.
- Led the deployment processes using Jenkins, facilitated UAT, and provided production support, maintaining high availability and performance.
- Ensured applications met security standards by integrating security practices at the software coding level.

Systems Engineer - Tata Consultancy Services, India

Jan 2019 - Aug 2022

- Analyzed requirements, designed custom APIs, and led the development process, ensuring smooth integration of all modules.
- Implemented the Billing Submission Module and Claims Processing Interface, enabling hospitals and insurance companies to interact with the system seamlessly, reducing manual processing errors by 30%.
- Developed the Data Transformation and Formatting Module, converting raw billing data into required formats and implementing data masking, improving data accuracy and compliance with privacy regulations.
- Coordinated the setup of a CI/CD pipeline with Jenkins, which automated the deployment, cutting release times by 40% ensuring consistent code quality.
- Discovered and resolved programming bugs, ensuring applications were reliable and worked correctly.
- Performed health checks to ensure all the environments(Dev, Uat, Prod) are available, leading to 99% system uptime and quick resolution of issues.
- Participated in Agile sprints, contributing to design and code reviews, ensuring high standards of development practices and timely delivery of solutions.

PROJECTS

Quiz Application (Java, Spring Boot, Spring MVC, Spring Data JPA, PostgreSQL)

- Developed the system using microservice architecture, partitioning it into smaller, independent services for scalability and maintainability.
- Implemented service discovery and registration using Netflix Eureka, facilitating dynamic service registration and discovery within the architecture.
- Designed RESTful APIs using the JPA repository for efficient CRUD operations on quizzes and questions, ensuring seamless data management.
- Implemented multithreading to manage multiple quiz-taking sessions concurrently, enhancing scalability and performance under high loads.
- Implemented random question retrieval based on category to offer users a diverse and dynamic quiz experience, enhancing engagement.
- Utilized the Lombok library to reduce boilerplate code and enhance code readability, while adhering to the MVC design pattern to maintain a clean and modular codebase.

Product Management System (Java, Spring Boot, Spring Data JPA, Spring Web, PostgreSQL, Stream API)

- Designed and implemented RESTful APIs including endpoints for adding, retrieving, and fetching products based on specific criteria.
- Integrated Spring Data JPA to interact with database and Hibernate for entity mapping.
- Implemented search functionality to retrieve products by name and type. Utilized Java8 Stream API for processing data streams effectively.
- Developed a feature to identify and list products that are out of warranty based on the current year.

AWARDS

- Beyond Excellence Award**, Tata Consultancy Services
- Best Performer Award**, Tata Consultancy Services