MANOJ K T

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PROFILE SUMMARY

Results-oriented Software Engineer with 2.5 years of experience in **Java backend development**, specializing in **Spring Boot, Spring MVC, Spring Data JPA, and MySQL**. Skilled in **RESTful API** development, **Microservices**, and **Database Optimization**. Hands-on with **Docker, Kubernetes, and Linux** for deployment and system management. Experienced in **Swagger UI, Git, Maven/Gradle, and Agile methodologies**. Strong problem-solving skills with a track record of delivering scalable and high-performance backend solutions while collaborating in cross-functional teams.

CORE COMPETENCIES

- Java 8+ , Python
- SQL, MySQL server
- Postman, Swagger UI
- Rest API, Microservices
- IntelliJ IDEA, Linux
- Agile methodologies
- Spring Boot, MVC, JPA
- GIT for version control
- Docker, Kubernetes

WORK EXPERIENCE

Software Engineer | OSS Technologies Pvt Ltd, Bengaluru, India | *May 2021 – Aug 2023*

- **Backend Development:** Designed and developed core modules for enterprise applications using Java, Spring Boot, and Spring MVC, ensuring scalability, performance, and maintainability in microservices-based architectures.
- **API Development:** Built secure RESTful APIs for payment processing, transaction management, and customer data integration, leveraging JWT for authentication and AES encryption for enhanced security. Integrated Swagger UI for API documentation and testing.
- **Database Optimization:** Improved query performance by 30% for a retail analytics platform through efficient indexing, query tuning, and Hibernate caching strategies, ensuring faster data retrieval and system efficiency.
- **Spring Data JPA Implementation:** Developed and optimized database operations using Spring Data JPA, implementing custom repository methods, pagination, and caching for an enterprise inventory management system, streamlining CRUD operations.
- **Containerization & Deployment:** Hands-on experience in Dockerizing applications and deploying them on Kubernetes, managing containerized services, and ensuring high availability.
- **Exception Handling & System Reliability:** Developed custom exception-handling mechanisms, ensuring fault tolerance and system reliability. Worked in Agile teams, collaborating with UI/UX designers, DevOps engineers, and cross-functional stakeholders to deliver high-quality backend solutions.
- **Linux & System Management:** Experienced in Linux environments, performing system configuration, debugging, and process automation to support backend operations.

PROJECTS

E-Commerce Backend Development | **GitHub Link**

- Developed a scalable backend system for an e-commerce platform using Java, Spring Boot, and SQL Server.
- Implemented features such as product catalog management, user authentication, and order processing workflows.
- Utilized Hibernate ORM for efficient database interactions and ensured secure API communication with JWT-based authentication.
- Conducted performance testing using Postman, ensuring the APIs handled high concurrent user loads without downtime.
- Followed best practices in modular development, version control using Git, and unit testing to maintain a clean codebase.

Personal Portfolio Website | Website Link | GitHub Link

- Created and deployed a responsive personal portfolio website using GitHub Pages to showcase professional skills and projects.
- Designed a clean and modern user interface with engaging layouts and smooth animations.
- Optimized for mobile and desktop devices, ensuring accessibility and cross-browser compatibility.
- Highlighted technical expertise, work experience, and project contributions in a well-structured and visually appealing format.
- Technologies used : HTML, CSS, JavaScript, Responsive Design.

Main Project (Master's): Enegry Usage Dashboard for Smart Homes | GitHub Link

- Developed a real-time dashboard to track and reduce electricity consumption in smart homes using Flask, Python and Chart.js..
- Built RESTful APIs for data collection and processing, enabling users to view energy consumption trends and set alerts for overconsumption.
- Integrated real-time data pipelines to process sensor data efficiently and displayed interactive visualizations for better user insights.
- Designed and implemented robust test cases, ensuring new features met stringent reliability and performance standards.
- Managed backend tasks, including database operations, authentication mechanisms, and API documentation for seamless integration.
- Technologies Used: Flask, Python, JavaScript, HTML/CSS, VS Code, GitHub.

COURSE AND CERTIFICATIONS

- Aplication Development using Microservices and Serverless from IBM.
- Core JAVA and Advance JAVA certification from TELUSKO.
- Spring MVC and Spring Boot certification from TELUSKO.
- Introduction to SQL with MySQL server from CodeWithMosh.

EDUCATION

- **MSc - Electronic & Computer Technology (Internet of Things)** | Dublin City University, Glasnevin, Dublin | (2023-2024)

- **B.E - Electronics and Communication Engineering** | ATME college of Engineering, Mysuru , India | (2019-2023)

INTERESTS

- **Professional Video Creator :** Experienced in editing high quality videos and also making creative content for social media handel such as Instagram and YouTube.

- **Motorbike Enthusiast :** Passionate about motorbikes and frequently engaging in Road trips and also making motorbike content.