KUSH SAINI

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EDUCATION

VIT Bhopal University   Bhopal. Madhya Pradesh
Bachelor of Engineering   CGPA:8.75
Computer Science and Engineering

SKILLS

Technical Skills: Java, Spring Boot, JavaScript, React, HTML, CSS, Python
Databases: MySQL, PostgreSQL
Tools: Figma, IntelliJ IDEA, VSCode, Git, MS Excel, Postman, Canva
Relevant Coursework: Data Structures & Algorithms, Database and Management Systems, Operating Systems

PROJECTS

SYSTEM MONITORING WEB APPLICATION – *Spring Boot, Java, OSHI, REST APIs, Maven*
- Developed a full-stack application to provide real-time system performance insights, implementing detailed metrics collection (CPU, memory, disk, and network) using the OSHI library and exposing the data through RESTful APIs for easy integration with monitoring dashboards.
- Designed and implemented a secure command execution service with whitelist validation to ensure controlled system interactions, while also adding features such as public IP detection and network interface monitoring for complete system visibility.
- Structured the project with a modular architecture supported by Maven, applying robust error handling and clean code practices to make the application scalable, reliable, and production-ready.

PARKING MANAGEMENT SYSTEM API – *Spring Boot, Java, PostgreSQL, JPA/Hibernate, Swagger, Maven*
- Engineered a RESTful API solution for parking management, building a structured data model to handle vehicles, entry/exit timestamps, parking duration, and billing, while using UUIDs for unique identification to enhance data integrity.
- Implemented CRUD operations with JPA/Hibernate to enable efficient database interaction, applying Spring Transaction Management to maintain data consistency across operations.
- Enhanced usability by integrating Swagger/SpringFox for interactive API documentation, and followed the DTO pattern with ModelMapper to streamline communication between layers, ensuring cleaner code and easier maintainability.

AI CHATBOT WEB APPLICATION – *React.js, Spring Boot, Google Gemini LLM, REST APIs, Bootstrap*
- Developed a full-stack AI-powered chatbot application with a React.js frontend and Spring Boot backend, enabling real-time conversational support through seamless communication between the client and server.
- Designed a responsive and interactive user interface using Bootstrap for styling and React Hooks for state management, providing smooth user interactions across devices.
- Strengthened application security by managing API keys with environment variables and configuring CORS policies, ensuring safe communication between the frontend and backend layers.

CERTIFICATIONS

Ethnus MERN Full Stack Certification Program (SNVL5BZ5)