

# KUSH SAINI

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## EDUCATION

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### VIT Bhopal University

Bachelor of Engineering

Computer Science and Engineering

Bhopal, Madhya Pradesh

CGPA:8.75

### DAV Public School, Kailash Hills

12<sup>th</sup> Standard CBSE

Delhi, 2022

Percentage: 95%

## SKILLS

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**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

## UNIVERSITY PROJECTS

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### 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.