

# KUSH SAINI

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## EDUCATION

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### VIT Bhopal University

Bachelor of Technology

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%

### DAV Public School, Kailash Hills

10<sup>th</sup> Standard CBSE

Delhi, 2020

Percentage: 90%

## PROJECTS

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### SYSTEM MONITORING WEB APPLICATION

June 2025

- Developed a full-stack Spring Boot(Java) application with a React.js frontend for real-time system monitoring.
- Implemented comprehensive metrics collection (CPU, memory, disk, network) using OSHI.
- Created a secure command execution service with whitelist validation.
- Integrated public IP detection and network interface monitoring capabilities.
- Designed a modular architecture with robust error handling, utilizing Maven for the build.

### PARKING MANAGEMENT SYSTEM API

April 2025

- Developed a RESTful API for parking management using Spring Boot and PostgreSQL.
- Implemented CRUD operations for parking records with UUIDs, leveraging JPA/Hibernate.
- Designed a data model to track vehicle details, parking duration, and billing.
- Integrated Swagger/SpringFox for API documentation and applied the DTO pattern with ModelMapper.
- Included robust exception handling and Spring Transaction Management, built with Maven.

### AI CHATBOT WEB APPLICATION

July 2025

- Built an AI chatbot web app using React.js frontend and Spring Boot backend.
- Integrated Google Gemini LLM for real-time question-answering via REST APIs.
- Implemented reactive programming and followed SOLID principles for clean architecture.
- Created a responsive UI with Bootstrap and managed state using React Hooks.
- Secured API access with environment variables and configured CORS for safe communication.

## ADDITIONAL

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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