

# RITIK VIJAY DATEY

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## Technical Skills

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**Languages and Databases:** Java, JavaScript, SQL, MySQL

**Frameworks and Technologies:** JDBC, Servlet, JSP, Hibernate, Spring Core, Spring Boot, React.js, Node.js

**Development Tools:** Eclipse, VS Code, SQL Workbench, Postman, Tomcat

## Projects

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### Personal Portfolio Website

**Technologies:** React, Node.js, HTML, CSS, JavaScript, GitHub

- Created a fully responsive website, accessible on all devices
- Integrated dynamic project display with filtering functionality.
- Enhanced performance by optimizing images and using lazy loading, reducing load time by 40%.

### BookMyShow Clone API

**Technologies:** Java, Spring Boot, Hibernate, MySQL, Postman

- Developed RESTful APIs using Spring Boot, Hibernate, and MySQL for database management.
- Defined entity classes and established relationships between them, storing all data in the MySQL database
- Designed and implemented data models using JPA annotations and Hibernate ORM. Implemented APIs to enable efficient communication between the backend and front-end
- Created custom validation and exception handling to ensure data integrity and application robustness.

### Autonomous Vehicles Using Raspberry Pi and Deep Learning

**Technologies:** Python, Deep Learning, Raspberry Pi, OpenCV

**Hardware Used:** Raspberry Pi 3B, Arduino UNO, L298N H-Bridge Motor Driver, RaspiCam v2

**Software Used:** Raspbian OS, OpenCV, Arduino IDE

- Developed a miniature self-driving vehicle prototype using deep learning techniques and Raspberry Pi, demonstrating real-life self-driving car functionality.
- Utilized Python for programming and implemented computer vision algorithms with OpenCV for object detection and navigation.
- Integrated Raspberry Pi 3B with Arduino UNO and L298N H-Bridge motor driver to control vehicle movement.
- Employed RaspiCam v2 for real-time image capturing and processing.

## Education

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**RTMNU University**

*Bachelor of Engineering in Electronics and Communication*

**July 2017 – August 2021**

*Nagpur, Maharashtra*

**Java Full Stack Development**

*JSpiders, Training & Development Center*

**June 2023 – March 2024**

*Pune, Maharashtra*

## Awards & Achievement

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- NCC Cadet with 'B' and 'C' Certificate