

RITIK VIJAY DATEY

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Technical Skills

Languages and Databases: Java, JavaScript (ES6+), SQL, MySQL

Frameworks and Technologies: Spring Boot, Spring MVC, Hibernate, J2EE (Servlets, JSP, JDBC), React.js, Node.js

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

Projects

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%.

Online Learning System (Backend)

Developed RESTful APIs for an online learning platform backend using Spring Boot, Hibernate, and MySQL.

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

- Designed and defined entity classes with relationships between courses, students, and instructors, improving database query performance by 20%.
- Designed and implemented data models using JPA annotations and Hibernate ORM, reducing database load by 25% through optimized queries.
- **Student Enrollment:** Developed APIs to allow students to enroll in courses, track progress, and view enrolled courses, resulting in a 40% increase in user engagement.
- **Error Handling:** Implemented custom exception handling for robust API responses and data validation, reducing error rates by 15% and improving overall API stability.

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 and Raspberry Pi, showcasing real-life autonomous vehicle functionality.
- Implemented computer vision algorithms with OpenCV for object detection and navigation, achieving an accuracy rate of 92%.
- Integrated Raspberry Pi 3B with Arduino UNO and L298N H-Bridge motor driver for efficient vehicle movement control.
- Employed RaspiCam v2 for real-time image capturing, enhancing the vehicle's navigation system. Engineered an advanced navigation system, demonstrating scalability for real-world applications and autonomous operation.

Education

RTMNU University

Bachelor of Engineering in Electronics and Communication

July 2017 – August 2021

Nagpur, Maharashtra

Certifications

Java Full Stack Development

JSpiders, Training & Development Center

June 2023 – March 2024

Pune, Maharashtra

Advanced Software Engineering Job Simulation (Walmart USA)

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