

Pathivada Harsha Vardhan *FullStack Developer*

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Portfolio : <https://pathivadaharsha07.github.io/Harsha-portfolio>

Skills

- Programming Languages : Java , PHP, JavaScript
- Frontend Technologies : HTML, CSS , Bootstrap, ReactJs
- Backend : Servlets , JSP , Spring Boot , Microservices , REST API's
- Data Base : MySQL, JDBC, Hibernate
- Architecture : MVC Architecture , RESTful services
- Tools & Others : Eclipse , VS Code, Git, GitHub

Professional Experience

2023/05 – Present
Hyderabad, India

Junior Software Engineer

IScientific Tech Solutions Labs Pvt. Ltd.

- Proficient in developing responsive and interactive user interfaces using **React.js** and **Bootstrap**, delivering modern and intuitive web application experiences.
- Built full-stack applications leveraging **Java**, **PHP**, **JavaScript**, **HTML**, and **CSS**, with a strong emphasis on performance and scalability.
- Experienced in creating backend systems using **Spring Boot**, **Servlets**, **JSP**, and **REST APIs**, following clean **MVC architecture** design.
- Efficiently handled data operations using **MySQL**, **JDBC**, and **Hibernate**, ensuring seamless data access and storage.
- Well-versed in version control and development environments including **Git**, **GitHub**, **Eclipse**, and **Visual Studio Code**.

Projects

2025/01 – 2025/05

Secunderabad Railway Station Quick Watering System

- Designed and developed a centralized dashboard for **real-time monitoring and control** of **6 motors and 6 valves** across **10 platforms** at **Secunderabad Railway Station**.
- Implemented live data updates using the **MQTT protocol**, enabling instantaneous visibility into motor modes (Automatic/Manual), inlet/outlet pressure, and key **electrical parameters** such as **voltage, current, and power**.
- Created dynamic visualizations to display **electrical parameters in graphs**, enhancing situational awareness and operational decision-making.
- Integrated historical data tracking modules to monitor **total energy consumption (kWh)** and **cumulative water distribution**, supporting diagnostics, performance analysis, and fault detection.

2024/10 – 2024/12

Sesola Energy Company Website

- Designed and developed a **fully functional website** for **Sesola Energy**, a solar panel company, using **HTML**, **CSS**, **Bootstrap**, **JavaScript**, **PHP**, and **MySQL**.
- Developed dynamic web pages to showcase the company's **solar panel products**, services, and information about the organization.
- Implemented backend functionalities for content management and form handling using **PHP and MySQL**.
- Website link: <https://sesolaenergy.com>

2024/03– 2024/09

Building Energy Monitoring System(BEMS)

- Developed a hierarchical energy monitoring system to track and analyze power consumption across residential or commercial buildings. The system is structured into **main devices per floor**, each connected to multiple **sub-devices** and their associated **switched devices**, enabling detailed monitoring at every level.
- The dashboard includes **historical data visualizations**, supports **custom date range selections**, and displays energy usage trends through graphs.
- It also measures **peak usage hours**, calculates **on-time and off-time**, and provides detailed insights into overall energy performance and efficiency.

2023/07– 2024/02

Centralized Control Monitoring System (CCMS)

- Developed a **web-based dashboard** for the **Centralized Control and Monitoring System (CCMS)**, designed to control and monitor street lights in real time.
- Built a user-friendly interface to display **live data** from CCMS devices, including the number of devices installed at each location and their operating parameters.
- Implemented **graphical representations of uptime and downtime hours**, with support for **date range selection** to view historical trends and performance.
- Developed robust backend functionalities for **data handling, status updates**, and **system control operations** using **PHP** and **MySQL**.

Education

2019 – 2023
Rajam, India

Bachelor of Technology in Electronics and Communication Engineering
GMR Institutes of Technology (GMRIT)