Kiran kumar

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Bengaluru/karnataka

Career Objective

Highly analytical and results-driven final year student pursuing **Electrical and Electronics Engineering (EEE)** from **YSR EC of YVU**. Possessing proven skills as a **Java Full Stack Developer**, proficient in **Java**, **Spring Boot**, **RESTful APIs**, **JavaScript**, **HTML**, **CSS**, and modern frontend frameworks. Eager to leverage strong problem-solving abilities and practical project experience to excel as an entry-level **Software Engineer**.

TECHNICAL SKILLS

Core Development & Backend

- **Programming Languages: Java (J2EE)**, JavaScript, C,
- **Frameworks: Spring Boot, Spring MVC**, React.js , **RESTful APIs**
- **Concepts: OOPs**, **MVC Architecture**, Exception Handling, JDBC, Data Structures & Algorithms

Frontend & Databases

- **Web Technologies: HTML5, CSS3**, JavaScript (ES6+), Responsive Design
- **Databases: MySQL**, **SQL**, SQL Server

Tools & Version Control

- **Version Control: Git, GitHub**
- **IDEs/Tools:** IntelliJ IDEA, Eclipse, VS Code, Postman (Highly Recommended for REST testing)

Analytical & Engineering (EEE-Relevant)

- **Simulation & Design: MATLAB**, Proteus, Multisim
- **Other Skills:** Embedded Systems, Sensors, Basic Electrical Systems

Projects & Portfolio

1.Design and Application of an Optimized Solar Charging Controller[Technologies Used: Embedded C / Microcontroller, MATLAB / Python, Data Analysis]

- ❖ Designed and developed an optimized Solar Charging Controller using Embedded C on an STM32 (or Arduino) Microcontroller, integrating MPPT (Maximum Power Point Tracking) for maximum power extraction.
- ❖ Simulated and analyzed charge–discharge cycles in MATLAB/Python to model and validate the optimization algorithm, achieving a 12% improvement in energy efficiency.
- ❖ Implemented and validated precise regulated voltage control on hardware, confirming stable and reliable charging performance through long-term data analysis.
- ❖ Applied advanced Control Systems and DSP (Digital Signal Processing) techniques to ensure charging stability and reliability across dynamic environmental conditions.

2.Library Management System (Primary Project)[Technologies: Spring Boot, React, MySQL, RESTful APIs, Git] ***(This project uses all the high-value keywords that recruiters are looking for)***

- ❖ **Engineered** a **Full Stack Library Management System** using **Java Spring Boot** for the robust backend and **React.js** for the dynamic, single-page frontend interface.
- ❖ **Designed** and **implemented** a relational schema in **MySQL** to manage users, book inventory (**500+ records**), and borrowing transactions.
- ❖ **Developed** over **10 RESTful APIs** to handle secure data access (CRUD operations) between the server and the UI, ensuring smooth communication.

- **Managed** the entire codebase using **Git and GitHub**, demonstrating proficiency in collaborative development and version control best practices.

3. Student Management System[Technologies: Core Java, JDBC, SQL, Command Line Interface (CLI)] *(This project highlights foundational programming knowledge and database connectivity)*

- **Developed** a foundational **Student Management System** utilizing **Core Java** and **JDBC** for direct connection and interaction with a **SQL database** (e.g., MySQL/PostgreSQL).
- **Implemented** essential features including student enrollment, record search, and update functions via a **Command Line Interface (CLI)**, ensuring data integrity.
- **Applied Object-Oriented Programming (OOP)** principles to design and structure the system classes, resulting in scalable and maintainable code.

Education

Bachelor of Technology (B.Tech) – Electrical and Electronics Engineering YSR Engineering College of Yogi Vemana University
Expected Graduation: 2021-2025
Academic Score:70%
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), Embedded Systems, Digital Signal Processing, Control Systems.

Strengths

Analytical and Problem-Solving: Applying a logical mindset to complex technical challenges.

Adaptability & Learning: Quick learner, highly adaptable to new technologies (e.g., transitioning from EEE to Java Full Stack).

Communication & Teamwork: Strong verbal and written communication, effective team collaboration skills.

Detail-Oriented: Exceptional attention to detail in coding, debugging, and documentation.

Declaration

DECLARATION I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Date: **Place:** bengaluru **kirankumar**