

# KIRAN KUMAR M

## FULL STACK JAVA DEVELOPER



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## OBJECTIVES

Dedicated and results-driven Full Stack Java Developer with a **strong foundation in programming languages**, specializing in **Java** and **MS SQL Server**. Adept at problem-solving, with hands-on expertise in **Java Servlets**, **Spring Boot**, **JDBC**, and session management. Passionate about crafting robust, reliable, and scalable applications that deliver exceptional user experiences and drive organizational success.

## WORK EXPERIENCE

Worked 1 year and 1 month at Research Community Technologies, contributing to key projects like The Reader's Cafe and The Gill Adarsh School using JSP, and Pepper Pot Restaurant using Spring Boot. Played a vital role in development, implementation, and optimization, ensuring seamless functionality and enhanced user experience.

## TECHNICAL SKILLS

**FRONT-END:** HTML5, CSS3, JAVASCRIPT

**BACK-END:** JAVA, JSP

**DATABASE:** MYSQL, SQL SERVER

**FRAMEWORKS:** SPRINGBOOT, JSWING, JSP, BOOTSTRAP, HIBERNATE

**TOOLS:** ECLIPSE, NETBEANS, GIT, GITHUB, XAMPP, MYSQL, WORKBENCH, SSMS

## ROLES AND RESPONSIBILITIES

- As a Full Stack java developer am good in design and develop **user- facing web application**.
- Worked with modern front-end technologies like **HTML5, CSS3, and JavaScript**, along with frameworks such as **Bootstrap** to create responsive and visually appealing web interfaces.
- Recently I worked in web application using **Java, Spring Boot and Hibernate, Ms SQL**.
- Ensured the performance, quality, and responsiveness of applications by optimizing code, implementing **multithreading concepts**, and improving database queries.
- Applied **OOPS concepts** such as encapsulation, polymorphism, inheritance, and abstraction to design scalable and maintainable applications.
- Gained hands-on experience with **Hibernate** for **Object-Relational Mapping (ORM)**, enabling efficient communication between Java applications and **RDBMS** like **MS SQL Server**.
- Utilized **JDBC** for database connectivity and worked with **REST APIs** to fetch and display data in **JSON format** on web browsers.
- Gained hands-on experience with **Eclipse IDE, Spring Dependency Injection, and Hibernate** for building robust and scalable applications.
- Gained hand-on experience in comparable with popular Eclipse, Spring dependency Injection and Hibernate.
- Collaboration with core functional Rest API using connection with JDBC driver for visual studio to json format display on web browser.
- I worked on version control and collaboration by using Git to track code changes and collaborate with other developers on the team.
- Gained hands-on experience in **session management** to handle user sessions and improve the overall user experience in web applications.
- And also I worked on implementing Java Servlets in my project, utilizing **Thymeleaf** for **dynamic front-end** rendering and seamless integration with backend.
- Focused on improving application performance by optimizing **MSSQL Server** queries and leveraging **Hibernate** for efficient database store procedure interactions.
- I worked an **optimizing database queries** and improving application performance, **reducing execution time by 50%**.

## PROFESSIONAL EXPERIENCE

### PROJECT 1: THE READER'S CAFE

#### SOFTWARE TRAINEE

**DURATION:** 4 MONTHS

**TEAM MEMBERS:**7

### PROJECT DESCRIPTIONS

The Reader's Cafe is a desktop application developed using Java Swing, designed to manage a cozy cafe environment with a focus on providing a relaxing space for readers and book lovers. The application allows café staff to manage customer orders, track inventory, handle billing, and offer an interactive menu. It also provides features for managing customer memberships, reservations, and loyalty programs. With its intuitive user interface, the project aims to enhance the overall customer experience and streamline café operations.

### ROLES AND RESPONSIBILITIES

- Worked on both **front-end** technologies and **backend server-side** code implementation for The Reader's Café project.
- Gained hands-on experience in designing and developing **user-friendly interfaces** while implementing robust **server-side logic** to meet project requirements.
- Ensured timely delivery of tasks by effectively managing priorities and adapting to evolving client and project requirements.
- Designed and maintained **MSSQL Server queries**, optimizing them to **improve performance and quality**.
- Utilized **DateTimeFormatter** and **SimpleDateFormat** for managing date and time operations, ensuring accurate and consistent data handling.
- Worked with **DbUtils** to display database results in tabular formats, enhancing data visualization and user experience.
- Implemented **FileOutputStream** for handling file operations, ensuring proper data storage and retrieval.
- Gained hands-on experience in writing and executing **stored procedures** to **secure database operations** and maintain data integrity.
- Organized data formats and **maintained clean code with proper class structures and object structuring**.
- Enhanced data security by integrating encryption and decryption features using the **Cipher package**.
- Focused on customer convenience by implementing features such as menu management, order placement, and billing systems.

## PROJECT 2: PEPPERPOT RESTAURANT

### SOFTWARE TRAINEE

DURATION: 4 MONTHS

TEAM MEMBERS:6

## PROJECT DESCRIPTION

Pepperpot Restaurant is a web-based application developed using Java Spring Boot, designed to streamline restaurant operations and improve customer service. The application allows restaurant staff to manage the menu, process orders and handle customer reservations. It also includes features for billing, online ordering, and generating reports on sales and customer preferences. With its modern and responsive interface, the project aims to enhance the efficiency of restaurant operations and provide a seamless dining experience for customers.

## ROLES AND RESPONSIBILITIES

- I Worked building **scalable and modular backend systems** using **Spring Boot**, designing **controllers** to handle HTTP requests and manage business logic efficiently
- Worked with **both JDBC and Hibernate** for database interactions, Gained proficiency in performing Create, Read, Update, and Delete (CRUD) operations efficiently
- Created visually appealing and **responsive designs** for the restaurant's web application.
- Ensured data integrity by implementing **primary keys, foreign keys, and unique constraints**.
- Created and managed **database tables**, ensuring proper **relationships and constraints**.
- Design and manage database schemas, ensuring proper normalization and indexing.
- Ensure secure and efficient data handling for **modules like Menu Management, Billing, Reservations, and Sales Reporting**.
- Design and develop a modern, responsive, and **user-friendly interface**.
- Implement frontend components for modules like **Home Page, Admin Page, Menu**
- Integration with backend APIs, Use HTML, CSS, JavaScript, and frameworks like **Thymeleaf** for dynamic content rendering.
- Worked with **collections** like **@List** to handle and process data in Java applications, ensuring efficient data manipulation and storage.
- Create and manage tables, stored procedures, Ensure **data integrity**, security, and **performance optimization**.
- Identify and **report bugs**, and work with developers to resolve it team discuss about problem find **the problem easy rectifying**.

**PROJECT 3: GILL ADHARSH MATRICULATION HIGHER  
SECONDARY SCHOOL  
SOFTWARE TRAINEE  
DURATION:4 MONTHS  
TEAM MEMBERS:6**

## **PROJECT DESCRIPTION**

The Gill Adarsh Matriculation Higher Secondary School JSP project is a web application designed to manage school operations such as student enrollment, attendance tracking, grade management, timetable scheduling, and communication between teachers, students, and parents. Using JSP, this system aims to improve administrative efficiency, streamline student and faculty management, and provide an effective platform for monitoring academic progress.

## **ROLES AND RESPONSIBILITIES**

- Worked in Develop and **maintain the core functionality** of the web application using **Java, JSP and JDBC**.
- Relevant to Implement the **CRUD operations** for various modules like Student Enrollment, Attendance, grade management, etc.
- Integrate the front-end (HTML5, CSS3, Bootstrap, JavaScript) with the back-end(JSP, Java).
- Communication between the application and the MSSQL Server database.
- Write and **optimize servlets for functionalities** like attendance tracking, communication, event management, etc.
- Design and **develop user-friendly interfaces** for all modules using HTML5, CSS3,Bootstrap, and JavaScript.
- Responsive design for compatibility across devices (**desktop, tablet, mobile**)
- Collaborate with the back-end developer to integrate front-end components with **JSP and servlets**.
- Implement dynamic features like dashboards, forms, and **interactive elements**.
- Write a stored procedures to secure database operations and ensure data integrity
- Optimize database queries for efficient data retrieval and storage
- Handle database-related issues like **connectivity, performance, and scalability**
- Identify and report bugs or issues in the application discuss the team members are solve the problem.
- The system caters to **multiple user roles**, including Admin, Teachers, Students, and Parents, each with specific access and functionalities.
- The application includes **18 modules**, covering all aspects of school management, from **student enrollment** to communication and reporting.

- Key functionalities like **attendance tracking**, **grade management**, and **timetable scheduling** are handled through dedicated servlets.
- And also Relational with many to many **foreign key** to use it integrating with backend system.

## ADDITIONAL PROJECTS

### PROJECT 1: JIO MART BILLING SYSTEM

**TECHNOLOGY:** JAVA | JSWING | JDBC | MSSQL SERVER

**TOOLS:** Netbeans, Git, MSSQL Server

#### PROJECT DESCRIPTION

The Jio Mart Billing System is a comprehensive desktop application designed to streamline the billing and inventory management process for retail operations. Built using Java with JSwing for the front-end and JDBC for database connectivity, the system leverages MSSQL Server for robust data management. The project is developed using NetBeans IDE and version-controlled via Git and GitHub. The application is modular, user-friendly, and includes features like **barcode scanning**, **QR code generation**, functionalities.

GitHub Link: <https://github.com/kiran142002/jiomart.git>

### PROJECT 2: OBSERVER BASED EVENT TRIGGERED TRACKING ENFORCEMENT IN DTIME&NONLINEAR SYSTEM

**TECHNOLOGY:** JAVA | SPRINGBOOT | JDBC | MSSQL | JQUERY | BOOTSTAP | HTML

**TOOLS:** Git, MSSQL Server, Eclipse

#### PROJECT DESCRIPTION

Developed a robust application to enforce observer-based event-triggered tracking in discrete-time and nonlinear systems, ensuring precise control and monitoring of complex processes while meticulously integrating manufacturing processes into the application to enhance operational efficiency and drive innovation through advanced technological solutions. Implemented the **Triple DES encryption algorithm** to secure the storage of managerial processes, ensuring robust data security, authentication, and immutable data protection, and leveraged cutting-edge technologies alongside stringent security measures to high-performance.

### PROJECT 3: RANJITH STUDENT SYSTEM

**TECHNOLOGY:**JAVA | JSWING | JDBC| MYSQL|XAMPP CONTROL PANEL

**TOOLS:** Netbeans, Git, MSSQL Server

#### PROJECT DESCRIPTION

Developed a comprehensive Student System using Java, JFrame, Jswing, JDBC,and MySQL as part of a client project for Ranjith. The system was designed to streamline student data management, offering modules such as **Add Student, Delete Student, Login Page,Entry Page, Search Student, and View Page**, ensuring efficient data handling and user interaction. **Leveraged XAMPP Control Panel** for local database management and integrated JDBC for seamless database connectivity. Utilized **Git** for version control and **GitHub** for collaborative development and code repository management. The project was developed in NetBeans IDE, ensuring a robust and user-friendly interface. This project enhanced my skills in **Java Swing for GUI development**, database management with MySQL, and version control using Git/GitHub, while delivering a scalable and maintainable solution for student data management.

**GithubLinks:**<https://github.com/kiran142002/STUDENT-MANAGEMENT-SYSTEM.git>

### PROJECT 4: BALA KRISHNA STUDENT PORTAL

**TECHNOLOGY:** JSWING|JAVA|JDBC|MSSQL

#### PROJECT DESCRIPTION

Developed a BALA KRISHNA Student Portal using Java Swing for the front-end and MSSQL Server for the back-end, leveraging stored procedures to perform CRUD(Create, Read, Update, Delete) operations. The system features a secure **login authentication** mechanism, allowing users to access the application only **after successful validation**. The application manages student records, including **ID, email, password, name,course, and fees**, ensuring data integrity and security. The project demonstrates proficiency in database management, stored procedures, Java Swing GUI development, and object-oriented programming

**GithubLinks:** <https://github.com/kiran142002/jswing-Project.git>

## **PROJECT 5: PRASANTH STUDENT TRACKER SYSTEM**

**TECHNOLOGY:** JAVA | SPRINGBOOT | CRUD | JDBC | MSSQL  
SERVER | HIBERNATE | MVC | RESTAPI

### **PROJECT DESCRIPTION**

The Prasanth Student Tracker System is a robust and scalable student management application designed to streamline the administration of student records, leveraging modern technologies to ensure efficiency and reliability. Built using Java and Spring Boot, the system follows the MVC (Model-View-Controller) architecture, ensuring a clean separation of concerns and maintainability. It integrates Hibernate for object-relational mapping (ORM) and JDBC for database connectivity, with MS SQL Server as the backend database for secure and efficient data storage. The application supports CRUD (Create, Read, Update, Delete) operations, allowing administrators to manage student records, including details such as email, password, name, course, and fees, through RESTful APIs. Key features include a StudentController for handling HTTP requests, a StudentRepository for database interactions using native queries, and a StudentModel entity for mapping database tables. The system is designed with transaction management to ensure data integrity and employs Spring Boot's auto-configuration for rapid development and deployment.

**GithubLinks:** <https://github.com/kiran142002/VenkatProject.git>

## **PROJECT 6: SHERWINSTD**

**TECHNOLOGY:** JAVA | SPRINGBOOT | CRUD | JDBC | MSSQL  
SERVER | HIBERNATE | MVC

### **PROJECT DESCRIPTION**

The Sherwinstd Management System is a comprehensive web-based application designed to streamline the management of student records through a user-friendly interface. Built using Java, Spring Boot, and Hibernate, this project leverages the Model-View-Controller (MVC) architecture to ensure a clean separation of concerns and maintainable code. The system integrates with MSSQL Server for robust data storage and retrieval, utilizing JDBC for database connectivity. Key features include CRUD (Create, Read, Update, Delete) operations, allowing administrators to efficiently manage student details such as email, password, name, course, and fees, RESTful endpoints for seamless interaction.



## **EDUCATION**

PERI INSTITUTE OF TECHNOLOGY

BE CSE

2020-2024

## **CERTIFICATION**

- Java training Besant Technology
- Networking Security Great Learning
- Python intern in Uniq Technology

## **ACHIEVEMENTS**

- TCS NQT scored by 70%
- Build a RESTful API using Spring Boot, enhancing system performance by 20%
- Optimized database queries in a Java application, reducing execution time by 50%

## **DECLARATION**

I hereby declare that the information provided above is true and accurate to the best of my knowledge.

**Regards,**  
**M.kiran kumar**