BALA SARAVANAN K

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Udumalpet,Tirupur

9787533274

PROFILE

Motivated and enthusiastic Computer Science student with a strong foundation in Java Full Stack development. Eager to apply academic knowledge to real-world projects and continuously learn new technologies. An effective communicator with a collaborative mindset, capable of working in team environments to deliver innovative solutions. Known for a strong work ethic, attention to detail, and a passion for building meaningful applications like Smart Elect, a secure online voting system developed through hands-on teamwork.

EDUCATION

Bharathiar University

BSc, Computer science - 7 CGPA
2019-2022

Bharathiar University

MSc, Computer science - 7.5 CGPA
2023-2025

SKILLS

- **Frontend:**
  HTML,CSS,JAVASCRIPT
- **Backend: JAVA,SPRINGBOOT**
- **Database: SQL,MYSQL**

LANGUAGES

English : Proficient

Tamil : Proficient

CERTIFICATIONS

- **JAVAFULLSTACK- Grapinz Technology and Institution,Udumalpet**
- **'TECH MASTERS' 25 Hackathon**

PROJECTS AND PRESENTATION

1. ENCRYPTED BANKING – Project Live Link

Technologies Used: JSP, HTML, CSS, JavaScript, MySQL, Apache Tomcat, JDBC. Security: AES Encryption, BCrypt Hashing. Developed a secure online banking system that enables users to perform core banking functions including login, balance inquiry, money deposit, transaction tracking, and loan application. The application is built using JSP for backend logic, with a clean and interactive frontend powered by HTML, CSS, and JavaScript.

The project ensures strong data security by implementing AES encryption for sensitive information such as account numbers and BCrypt hashing for storing user passwords securely. All data is managed using MySQL, with real-time database interaction handled through JDBC.

Key highlights:
- Designed and implemented a normalized relational database in MySQL
- Integrated real-time balance updates and transaction history logging
- Developed detailed flowcharts and ER diagrams for all core modules
- Deployed and tested using Apache Tomcat and MySQL Workbench

2. SMART ELECT – Project Live Link

Team : 5 members (3 Designers, 2 Developers)
Role: Developer
Technologies Used: Java, JSP, MySQL, JDBC, HTML, CSS, JavaScript, Figma, Apache Tomcat

Description:

Smart Elect is a secure, Aadhaar-based online voting platform developed to digitize and simplify the electoral process. It ensures voter authentication, secure vote casting, and real-time result monitoring. This project was collaboratively developed by a five-member team, including three UI/UX designers and two backend developers.

Key Contributions:
- Designed and implemented the backend logic using Java and JSP for user login, vote casting, and result calculation.
- Integrated Aadhaar-based authentication to ensure that each voter is uniquely identified and can cast only one vote.
- Developed secure MySQL database schemas for storing user details, candidate information, and votes.
- Used JDBC for seamless database connectivity and transaction handling.
- Worked closely with the UI/UX team who designed the interface using Figma, translating wireframes into functional JSP pages.