

# BAIVAB SARKAR

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## PROFESSIONAL SUMMARY

Java-savvy software engineer (2 yrs. experience) with deep expertise in JavaScript and modern front-end frameworks. Dedicated to applying agile methodologies to deliver high-quality, user-centric applications.

## SKILLS

- **Technical Skills:** C, Java, JavaScript, MySQL, API Handling.
- **Tools:** Git, GitHub, Docker, MS PowerPoint, MS Word, Postman, Figma.
- **Miscellaneous:** Data Structures and Algorithms, Object Oriented Programming (OOPs), Operating System, Database Management System, Computer Networks.
- **Interpersonal Skills:** Collaborating, Teamwork, Leadership, Time management, Adaptability.

## PROJECT

### MEDICHAIN – BLOCKCHAIN-BASED PHARMA SCM PLATFORM – [GitHub](#)

February – April 2025

**Tech Stack:** Ethereum, Solidity, Spring Boot, Web3.js, JavaScript, HTML, CSS, Remix IDE

- Developed a decentralized pharmaceutical **SCM** using **Solidity smart contracts** on a private **Ethereum** network, enabling secure, role-based operations for manufacturers, distributors, and pharmacies.
- Designed a **Web3.js** and **MetaMask**-integrated interface for real-time medicine tracking, **QR** verification, PDF report generation, and lifecycle transitions (e.g., Manufactured, In Stock, Sold, Expired).
- Implemented **Spring Boot** services for registration welcome emails, token-based password recovery via **SMTP**, deployed the **JAR** on **Railway** for scalable backend hosting.

### ACADEMIC MANAGEMENT SYSTEM – [GitHub](#)

March – July 2024

**Tech Stack:** Spring Boot, Java, Redis, PostgreSQL, JPA, REST APIs, HTML, CSS, JavaScript, Bootstrap

- Developed a modular, role-based (administrators, faculty, and students) Academic Management System with real-time attendance tracking, report generation, substitute scheduling, and medical leave management; implemented secure routing and session handling.
- Built a responsive frontend integrated with a **Spring Boot** backend and **Redis**-based session caching, utilizing **RESTful APIs** and **PostgreSQL** with **JPA** for secure and efficient data persistence across multi-user interactions.

### MARKDOWN VIEWER – [GitHub](#)

September – December 2023

**Tech Stack:** HTML5, CSS3, JavaScript, Bootstrap, Marked.js, MathJax, Mermaid.js, FileSaver.js, DOMPurify

- Developed a responsive Markdown renderer with **LaTeX (MathJax)**, **Mermaid.js** for diagrams, and multi-language syntax highlighting via **highlight.js**, using **HTML5**, **CSS3**, **JavaScript**, and **Bootstrap**.
- Implemented content management with Markdown export (**MD**, **HTML**, **PDF**) using **jsPDF** and **html2canvas**, real-time statistics, and synchronized scrolling, powered by **Marked.js** and **DOMPurify**.

## EDUCATION

### JIS COLLEGE OF ENGINEERING

B.Tech in Computer Science and Engineering. **CGPA: 9.07/10**

Kalyani, West Bengal, India

October 2021 – August 2025

### BANDEL VIDYAMANDIR HIGH SCHOOL

Higher Secondary in Science, **Percentage: 77.2**

Bandel, West Bengal, India

Jun 2019 - Apr 2021

## ACHIEVEMENTS (CERTIFICATION'S)

- **Learn JAVA Programming Beginner to Master** – Udemy [View](#) May 2025
- **GitHub Foundations** – GitHub [View](#) November 2024
- **Mastering Data Structures & Algorithms using C and C++** – Udemy [View](#) September 2024