

Baivab Sarkar

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PROFESSIONAL SUMMARY

Computer Science and Engineering graduate experienced in Java and JavaScript development, REST API integration, and responsive web interfaces. Strong foundation in object-oriented programming, data structures and algorithms, and MySQL. Completed Software Development Engineer in Test (SDET) training in UI and API automation with Selenium WebDriver, TestNG, Cucumber, Postman, and Jenkins.

EDUCATION

JIS College of Engineering <i>Bachelor of Technology in Computer Science and Engineering; CGPA: 9.15/10</i>	Kalyani, West Bengal <i>Oct 2021 – May 2025</i>
Bandel Vidyamandir High School <i>Higher Secondary (Class XII), Science (Mathematics, Physics, and Chemistry); 77.20%</i>	Hooghly, West Bengal <i>Jul 2019 – Aug 2021</i>

TECHNICAL SKILLS

- **Languages & Web:** Java, JavaScript, HTML5, CSS3
- **Testing & Automation:** Selenium WebDriver, TestNG, JUnit, Cucumber, Postman
- **Development Tools:** Maven, Git, GitHub, Jenkins, Docker, Figma, Microsoft Excel
- **Database & Core CS:** MySQL, Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Database Management Systems (DBMS), REST APIs, Software Development Life Cycle (SDLC), Software Testing Life Cycle (STLC)

PROJECTS

Markdown Viewer – Open-Source Markdown Productivity Platform	GitHub
◦ Built an open-source Markdown editor for web, desktop, and Docker using JavaScript and Neutralinojs, with GitHub-Flavored Markdown preview, diagrams, LaTeX, multi-tab workspaces, offline support, and PDF, HTML, and PNG exports. ◦ Implemented Web Workers and sanitized rendering, with Cloudflare Workers, KV storage, and Durable Objects supporting expiring share links and permission-aware real-time collaboration.	
MediChain – Blockchain-Based Pharmaceutical Supply Chain Platform	GitHub
◦ Developed a three-layer Ethereum application using Solidity, Web3.js, JavaScript, HTML, and CSS to register medicines, transfer ownership, and track lifecycle states across manufacturer, distributor, and pharmacy roles. ◦ Integrated MetaMask-signed transactions, QR verification, real-time inventory and order dashboards, and downloadable reports to trace medicines from production to sale.	
Academic Management System	GitHub
◦ Built a role-based academic management system using Java, JavaScript, HTML, CSS, and REST APIs for administrator, teacher, and student attendance and academic record workflows. ◦ Implemented class and faculty management, attendance reporting, substitute scheduling, medical leave tracking, secure routing, and session management.	

TRAINING & CERTIFICATIONS

- **Java and Selenium QA Automation Training:** Hands-on UI and API automation with Java, Selenium WebDriver, TestNG, JUnit, Maven, Cucumber, Page Object Model, Postman, Git, and Jenkins.
- **Learn Java Programming – Beginner to Master:** Udemy, May 2025 – Credential
- **GitHub Foundations:** GitHub, Nov 2024 – Credential
- **Mastering Data Structures & Algorithms Using C and C++:** Udemy, Sep 2024 – Credential