SOUVIK MOHANTY

in **LinkedIn**   **GitHub**   **GeekForGeeks**   **Portfolio**

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PROJECTS

Smart Agricultural Supply Chain Platform | Microservice Architecture   ○ GitHub

- **Problem**: Farmers face middlemen dependency, limited buyer access, and lack efficient tools for logistics, payments, and crop/weather advisory.
- **Solution**: Built a microservices-based platform using Spring Boot (Java) and React.js with modular services (User, Product, Order, Advisory, Logistics). Implemented JWT authentication, role-based access, REST APIs, and integrated MongoDB/PostgreSQL, Razorpay payments, and real-time logistics tracking.
- **Achieved**: Reduced middlemen involvement, improved transparency and traceability in agri-trade, and delivered a scalable, extensible system for rural market expansion.
- **Tech Stack:** Java (Spring Boot), React.js, MongoDB, PostgreSQL, Razorpay API, JWT, REST APIs, Microservices Architecture.

Hospital Operation Scheduler | Monolithic Architecture   ↗ LiveDemo

- **Problem Statement**: Manual surgical scheduling in hospitals is inefficient, error-prone, and lacks real-time updates, making coordination between doctors, patients, and staff difficult.
- **Solution**: Developed a web-based dynamic scheduling system with role-based access (Admin & User), real-time updates using Firebase Firestore, and a responsive interface built with HTML, CSS, and JavaScript.
- **Achieved**: Improved efficiency in managing doctor/patient records and surgical schedules, enabled instant updates across users, and deployed a secure, scalable solution accessible via web.
- **Tech Stack**: HTML, CSS, JavaScript, Firebase (Firestore, Authentication), Netlify(Hosting)

Bridge Between Investor and Business People | Monolithic Architecture   ↗ LiveDemo

- **Problem**: Lack of a structured and secure platform for connecting investors with entrepreneurs, leading to inefficiencies and missed opportunities in funding and idea exchange.
- **Solution**: Developed a web-based platform with role-based modules for Investors, Entrepreneurs, Bankers, and Business Advisors. Implemented real-time data management using Firebase Firestore, secure authentication, and a responsive frontend with HTML, CSS, and JavaScript.
- **Achieved**: Streamlined investor–entrepreneur interaction, improved visibility of business ideas and proposals, and provided a centralized space for funding and advisory support.
- **Tech Stack**: HTML, CSS, JavaScript, Firebase (Firestore, Authentication, Hosting).

TECHNICAL SKILLS

- **Programming & Core Concepts**
  - Languages: C, C++, Java
  - Concepts: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, Operating Systems
- **Full-Stack Development**
  - Frontend Technologies: HTML, CSS, React.js
  - Backend Technologies: Spring Boot, Node.js (basic understanding)
  - Database Technologies: MongoDB, PostgreSQL, Firebase
- **Tools & Platforms**
  - Git, GitHub, Postman, VS Code, IntelliJ IDEA

INTERNSHIPS

- **Web Development Intern | Parala Maharaja Engineering College**   Jun 2024-Jul 2024
  - Built a Learning Management System (LMS) using HTML, CSS, and React.js.
  - Gained hands-on experience in responsive web design and frontend development practices.
- **Web Development Intern | UNIFIED MENTOR**   Jun 2025-Aug 2025
  - Developed a hospital operations scheduler and a platform to bridge investors and business people.
  - Utilized web development skills to create and implement functional and efficient business solutions.

EDUCATION

- **B.Tech in Computer Science and Engineering**   2022-2026
  - Parala Maharaja Engineering College, Odisha

EXTRA-CURRICULAR ACTIVITIES

- **Coding Competitions**: Participated in DSA contests on GeeksforGeeks.
- **Hackathon Participation**: Took part in the national-level Smart India Hackathon (SIH).
- **Campus Tech Events:** Competed in various college-level coding competitions and tech events.
- **Freelance Project**: Developed a web solution for a pathology clinic.