SOUVIK GHOSH

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EDUCATION

HERITAGE INSTITUTE OF TECHNOLOGY   Kolkata, West Bengal
Bachelor of Technology; Cumulative DGPA: 7.53/10.   Aug 2021- Jun 2025
   Major in Computer Science and Business System.
   Relevant Coursework: Data Structures Algorithms, Software Engineering; Operating Systems; OOPS

BANKURA BANGA VIDYALAY   Bankura, West Bengal
WBCHSE(XII); Cumulative Percentage: 89%.   Mar 2020 - Feb 2021
   Major in Science & Mathematics.

WORK EXPERIENCE

ARDENT COMPUTECH PVT.LTD.   Kolkata, West Bengal
MERN Stack Developer Intern   Jun 2024 – July 2024
- Designed and deployed scalable RESTful APIs using Node.js & Express.js, enhancing backend efficiency by 40% and ensuring seamless data communication.
- Refined database models and MongoDB integration, achieving 99.9% uptime while ensuring scalability and data integrity for thousands of users.
- Tech Stack: React.js, Node.js, Express.js, MongoDB, Git.

PROJECTS

BloodLink | **Source Code** | MERN and Tailwind CSS   May 2025
- Led the design and development of BloodLink, a web-based platform built as a final year engineering project to connect patients with nearby blood banks in emergency scenarios.
- Designed a geolocation-based filtering system using the Haversine formula and Google Maps API to locate blood banks within a 7 km radius.
- Integrated JWT authentication, ensuring secure user logins and improving overall system security.
- Built a centralized dashboard for blood bank administrators to track blood inventory, manage requests, and monitor donation history.

Exam Portal | **Source Code** | React.js, JAVA, JDBC, SQL, MySQL   Jul 2024
- Developed a web app using React.js, Java REST APIs, and JDBC, improving accessibility for 100+ students and boosting admin task efficiency by 40%.
- Engineered a color-coded notification system also optimized and enhanced UI/UX for profile/exam management, reducing user errors and inquiries by 50%.

Insurance Management System | **Source Code** | React.js, Spring Boot Microservices, MySQL   Dec 2024
- Implemented an API Gateway and Service Registry using Spring Boot, improving microservice request routing and communication reliability by 30%.
- Enhanced data exchange efficiency by 20% through seamless microservice integration with OpenFeign, secure JWT-based role management, and optimized insurance policy operations, leveraging MySQL to handle 10K+ records efficiently. Key Technologies- Spring Boot, JWT, OpenFeign, MySQL, Postman

EXTRA-CURRICULAR ACTIVITIES

SMART INDIA HACKATHON   Sep 2023
- Conceptualized and presented an innovative solution, improving team communication efficiency by 30%.

ADDITIONAL

Programming Languages: Java, Bash, JavaScript, HTML/CSS.
Databases and Cloud: MySQL, MongoDB, Firebase, AWS (familiar).
Developer Tools: VS Code, IntelliJ IDEA, Git, GitHub, Docker, POSTMAN
Frameworks/Technologies: React.js, Node.js, Express.js, Tailwind CSS, RESTful APIs, Spring Boot(familiar).
Certifications & Training: FullStack Web Development (Udemy)