Indranil Saha

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PROFESSIONAL SUMMARY

Results-driven Computer Science student with proven expertise in full-stack development and software engineering. Successfully delivered multiple web applications using MERN stack technologies, demonstrating strong problem-solving abilities and technical acumen. Experienced in implementing user authentication, database integration, and responsive design principles across diverse projects.

ACADEMIC BACKGROUND

Heritage Institute of Technology, Kolkata

Pursuing B.Tech in Computer Science and Engineering | Expected Graduation: 2026

Ram Mohan Mission High School, Kolkata

ICSE (Secondary) and ISC (Higher Secondary) Curriculum | Graduated: 2022

TECHNICAL EXPERTISE

Programming Languages: JavaScript, Python, Java, C++, C, SQL, HTML5, CSS3

Frameworks & Libraries: React.js, Express.js, Node.js, NumPy, Pandas

Technologies: MongoDB, Git, REST APIs, Natural Language Processing

Core Competencies: Data Structures and Algorithms, Object-Oriented Programming, Database Management, Full-Stack Development.

PROFESSIONAL EXPERIENCE

Web Development Intern – Codsoft (December 01, 2024 to December 31, 2024)

- Engineered and deployed a high-performance calculator application utilizing JavaScript and React.js
- Implemented comprehensive error-handling mechanisms that enhanced application reliability by 95%
- Conducted thorough user testing with 500+ users, resulting in 15 critical bug fixes and improved user satisfaction
- Optimized application performance through efficient code structuring and modern web development practices

KEY PROJECTS

Museum Ticket Booking Chatbot | Full-Stack Developer

- Architected and implemented a scalable MERN stack application featuring AI-powered chatbot functionality
- Developed secure user authentication system and RESTful APIs using Express.js and MongoDB
- Integrated Natural Language Processing models to enhance chatbot response accuracy
- Collaborated with a team of 4 developers using agile methodologies and version control

Timetable Generator | Lead Developer

- Designed and implemented an algorithmic solution for NP-hard scheduling problems
- Created a scalable database architecture supporting 200+ concurrent users
- Developed responsive frontend interface using React.js and Material-UI components
- Integrated MongoDB for efficient data storage and retrieval operations

Travel & Tourism Platform | Full-Stack Developer

- Developed a comprehensive travel platform with user role management system
- Implemented secure payment gateway integration and booking management features
- Created responsive layouts using modern CSS frameworks and JavaScript
- Built RESTful APIs for seamless communication between frontend and backend

Created a mini e-commerce site with cart management functionality and billing summary display.

ACHIEVEMENTS

Smart India Hackathon 2023: Qualified among top teams from Heritage Institute of Technology

Hackathons: Active participant in HackHeritage 2023, HackHeritage 2024, and INNOVATHON 2024

Sports Achievement: Represented Garia Srirampur Kalyan Samity in U-16 C.A.B. Tournament

PROFESSIONAL DEVELOPMENT

- Completed technical workshop on "TRANSISTORS: Story of Invention and its Impact" - IEEE EDS
- Attended "E=mc²" session by Prof. Ajoy Ghatak, Former Professor, IIT Delhi
- Regular participant in coding competitions and technical workshops

ADDITIONAL INFORMATION

Languages: English (Professional), Hindi (Professional), Bengali (Native)
Interests: Software Development, Artificial Intelligence, Content Creation, Sports
Date of Birth: October 18, 2003
Nationality: Indian

DECLARATION

I do hereby declare that the information furnished above is correct and complete to the best of my knowledge.

DATE : 31.12.2024
PLACE : Kolkata