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Swatantra Mitra

SDE

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OBJECTIVE & INTEREST

Software Engineer with 1 year of experience building scalable full-stack web and system applications using React JS, Next JS, Node.js, and .NET, with a focus on performance, real-time data, and clean architecture.

SKILLS

Languages	JavaScript, HTML/CSS(Tailwind), C#, C++, Java, Wordpress
Frameworks	React JS, NEXT JS, Node JS, Express JS, Dot NET, QT
DevOPS	Git, Github
Operating System	Windows, Linux
Database	MySQL, PostgreSQL, MongoDB
Quantitative Research	Data Visualization, Data Plotting, Network Protocol

TECHNICAL EXPERIENCE & PROJECTS

Software Developer - Website Development [Next JS, Tailwind CSS] *Semicolon ITES*

[Project Link](#)

- Designed and Developed and deployed high-performance company website with SSR, caching, and lazy loading—reduced load times from 8s to under 2s.
- Collaborated with tech leads on frontend architecture, contributing to key design and performance decisions.
- Maintained clean, scalable code using reusable components and modular CSS structure.
- Conducted peer reviews and ensured adherence to accessibility and SEO best practices.

Software Engineer - Radar Data Processing for Drone and Bird Detection [QT, C++, C#, .Net 4.5] *FalconX Electro PVT Ltd*

02/2024 — 09/2024
Hyderabad, Telangana

- Developed a control GUI for real-time FPGA/microcontroller system management, enhancing data accessibility and reducing manual analysis time by 50 percent.
- Engineered a 2D FFT data visualization interface over Ethernet using .Net c# streamlining performance debugging and signal verification.
- Integrated TCP/UDP and UART communication protocols to enable seamless data exchange across distributed hardware modules.
- Integrated communication protocols such as UART and TCP/UDP to facilitate seamless data exchange between the control GUI and target hardware platforms.

Real-Time Messenger Clone [PHP, Laravel, React, Tailwind CSS, MySQL] | Self Hosted *Self Development*

- Built a secure, real-time chat platform with WebSocket-powered messaging, user authentication, and file-sharing capabilities.
- Enhanced database performance by 30% via SQL query optimization and index tuning.
- Created a mobile-responsive UI with Tailwind CSS, resulting in improved UX across devices.
- Designed backend logic in Laravel to ensure robust user management and session handling.

MERN SHOP [MongoDB, ExpressJS, ReactJS, NodeJS] *Self Development*

[Project Link](#)

- Implemented secure user authentication with JWT and OTP verification, ensuring data integrity and user trust.
- Engineered shopping cart functionality with dynamic product updates, increasing usability.
- Built scalable backend APIs and a responsive UI with category-based filtering and pagination.

EDUCATION

Bachelor in Electronics and Communication Engineering, <i>Camellia Institute of Technology</i>	2023
Diploma in Electronics and Communication Engineering, <i>Jangipur Government Polytechnic</i>	2020
12th, Science, <i>Narendrapur, Ramakrishna Mission</i>	2017

ACTIVITIES

Installation and Setup of Server	FalconX Electro PVT Ltd 02/2024 — 09/2024
• Led server installation to support development environments and internal tools to Centralized data storage for file sharing and backups.	

STRENGTHS

Problem Solving
• Engineered real-time data solutions, reducing unresolved processing issues by 40% through multithreaded optimization.
Collaboration
• Worked in a cross-functional team to deliver mission-critical systems on time and within budget.
Adaptability
• Rapidly adopted new technologies across projects, minimizing disruption and increasing velocity.