

# SOURAV PAITANDY

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## PROFESSIONAL SUMMARY

Full-stack MERN developer with 2+ years of experience building scalable, real-time applications. Proven expertise in client collaboration, cloud deployment, and performance optimization using modern JavaScript frameworks, WebSocket, and RESTful APIs.

## EDUCATION

### NSHM Knowledge Campus, Durgapur

Durgapur, West Bengal

*Bachelor of Technology in Computer Science & Engineering*

*Expected July 2026*

**Core coursework:** Data Structures, Software Engineering, Operating Systems, Computer Networks

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Java, Python, C, SQL

**Frontend:** React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Bootstrap, Responsive Design

**Backend:** Node.js, Express.js, MongoDB, RESTful APIs, WebSocket, WebRTC, Firebase

**Tools & Technologies:** Git, GitHub, Postman, VS Code, Vercel, Docker (basic), Agile/Scrum, Jest

**Core Competencies:** Data Structures & Algorithms, System Design, Web Performance Optimization, SEO

## EXPERIENCE

### Freelance Full Stack Developer

June 2025 – Present

*Jagjit Kaur Fashion Brand (jkbyjagjitkaur.com) | Remote*

- Engineered production-ready e-commerce platform using Next.js, Tailwind CSS, and Firebase, managing complete SDLC from requirements to deployment on Vercel with custom GoDaddy domain
- Architected secure admin panel with role-based access control and responsive content management enabling real-time product catalog updates
- Implemented advanced features including interactive faceted search, category filtering, image carousel, and WhatsApp Business API integration

## PROJECTS

### CollabHub | Next.js, React, Node.js, Express.js, MongoDB, WebSocket, Tailwind CSS

Live | Code

- Developed real-time team collaboration platform with WebSocket integration enabling instant task synchronization with sub-200ms latency
- Built drag-and-drop Kanban board with GitHub integration and optimized backend achieving 35% performance improvement

### Hexode | React, Node.js, MongoDB, Monaco Editor, Yjs (CRDTs), WebSocket, Google Gemini

Live | Code

- Built an AI-native collaborative cloud IDE with real-time multi-user editing using CRDT-based synchronization (Yjs)
- Integrated context-aware AI assistance directly into the editor for code generation, debugging, and inline explanations
- Developed a standalone online coding playground supporting Java, Python, C, C++, and JavaScript with zero setup
- Implemented secure polyglot code execution and role-based collaboration controls

### DrawSync | Next.js, React, HTML5 Canvas, Liveblocks, WebSocket, Tailwind CSS

Live | Code

- Created collaborative whiteboard with infinite canvas, pan/zoom, and real-time multi-user drawing synchronization using Liveblocks
- Engineered object transformation pipelines and enhanced export features, boosting average frame rates by 20 FPS across a range of mobile and desktop devices, resulting in smoother user experience.

## CERTIFICATIONS & ACHIEVEMENTS

**J.P. Morgan Software Engineering Simulation (Forage): Certificate** - Completed Agile workflow simulation and built internal debugging tools

**Competitive Programming:** 5-star Java (HackerRank) | 300+ DSA problems solved across LeetCode, HackerRank, CodeStudio

**GitHub Insights:** 100+ GitHub commits (2025) | 20+ public repositories