

SOUMYADIP MAITY

Full Stack Developer | Next.js | Node.js | MongoDB | WebSocket

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PROFESSIONAL SUMMARY

Final-year B.Tech CSE student (CGPA 8.2) with hands-on experience building production-grade full-stack applications. Built and shipped Ucoder Insights — a live analytics SaaS platform with a published open-source NPM package, Docker deployment, and Cloudflare security. Currently engineering an E2EE real-time chat platform using Web Crypto API, WebSocket, and Redis. Strong in backend architecture, RESTful APIs, and real-time systems.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, HTML5, CSS3

Frontend: React.js, Next.js, Tailwind CSS, Responsive Design

Backend: Node.js, Express.js, REST API, JWT + RBAC, WebSocket, Socket.io, BullMQ

Databases: MongoDB, Mongoose, Redis, PostgreSQL (learning)

DevOps: Docker, Nginx, Azure VM, Cloudflare, Vercel

Security: Web Crypto API, E2EE (ECDH + AES-GCM), Rate Limiting

Tools: Git, GitHub, Postman, VS Code, npm

PROJECTS

Ucoder Insights — Full Stack Analytics SaaS

Oct 2025 – Present

Stack: Next.js · Node.js · MongoDB · Redis · BullMQ · Docker · Nginx · Azure · Cloudflare · TypeScript

- ▶ Built a production-grade, cookie-free analytics SaaS platform with multi-site tracking, JWT + RBAC auth, Docker + Nginx on Azure VM, and Cloudflare DDoS protection
- ▶ Published an open-source NPM package (JS/TS) with automatic tracking of page views, custom events, scroll depth, geolocation, and JS errors via a single script tag — GDPR-compliant, zero PII
- ▶ Implemented Redis caching and BullMQ job queues to handle high event throughput with minimal latency

Flex Chat — E2EE Real-Time Messaging Platform (currently Building)

2026 – Present

Stack: Next.js · Node.js · Socket.io · MongoDB · Redis · Web Crypto API · ZegoCloud · Transformers.js

- ▶ Engineered end-to-end encryption using Web Crypto API (ECDH key exchange + AES-GCM) — server never sees plaintext
- ▶ Implemented group E2EE with per-member encrypted group keys stored in MongoDB, enabling WhatsApp-style group security
- ▶ Built real-time message delivery, typing indicators, and online presence using Socket.io and Redis (TTL-based heartbeat pattern)
- ▶ Integrated Transformers.js + IndexedDB for in-browser multilingual translation (English/Bengali/Hindi) with zero server cost

EDUCATION

B.Tech — Computer Science & Engineering

2023 – 2027

Swami Vivekananda University, Barrackpore **CGPA: 8.2 / 10**

CERTIFICATIONS

- ▶ Design & Analysis of Algorithms — NPTEL, IIT Kharagpur
- ▶ React.js Development — Ardent Computes Pvt. Ltd.
- ▶ Python Programming — Academy of Skill Development