

SHIVAM PATRA

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EDUCATION

KIIT – Kalinga Institute of Industrial Technology , Bhubaneswar	2023–2027
B.Tech in Computer Science	
Kendriya Vidyalaya	2020–2022
Higher Secondary Certificate (HSC)	

PROJECTS

NamasteChat – Real-Time Messaging Platform

Designed and developed a scalable real-time messaging platform enabling users to communicate instantly. The system is powered by Socket.io for seamless WebSocket-based interactions and integrates a secure authentication mechanism.

Key Features:

- Real-time communication using Socket.io for instant updates.
- Secure JWT-based authentication with role management.
- Media sharing capabilities, supporting images, videos, and files.
- Optimized MongoDB storage for scalable data handling.
- Responsive UI built using React.js and Tailwind CSS.
- Deployed on Render, ensuring global accessibility.

namstechat90.onrender.com | GitHub

NamasteX – Scalable Web App With Real-Time Communication

Developed a full-stack web application featuring real-time updates, secure authentication, and optimized database performance. Integrated PostgreSQL via Prisma ORM for efficient data handling.

Key Features:

- Real-time messaging utilizing WebSockets for instant user interaction.
- Next.js-powered SSR, improving page load speed and SEO.
- OAuth2 JWT authentication, ensuring user security.
- PostgreSQL backend with Prisma ORM for optimized queries.
- RBAC (Role-Based Access Control) for secure permission handling.
- Vercel deployment with auto-scaling capabilities.

GitHub

TECHNICAL SKILLS

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|---|---|
| • Languages: C++, C, Java, JavaScript, Python, TypeScript | Prisma, Chakra UI, Tailwind CSS |
| • Frameworks: React.js, Next.js, Express.js, Socket.io, | • Tools: Node.js, PostgreSQL, MongoDB, Git, Netlify, Vercel, Render, GraphQL, SQL |

EXPERIENCE

Competitive Programming

Solved 730+ problems on LeetCode, Codeforces, and CodeChef. Participated in “Decode & Dominate” at KIIT Fest 8.0.

CERTIFICATES

Data Structures & Algorithms C++ Zero to HERO + LEETCODE Instructor: Ankit Thakran & Harsh Kajla 2024