



# Unmesh Goutima Behera

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## EDUCATION

### Indian Institute of Technology, Dhanbad

Bachelor of Technology in Electrical Engineering – CGPA: 7.51/10.0

- Relevant Coursework: Data Structures and Algorithms (C++), Introduction to C Programming (C)

### SSVM, Nk Nagar

Council of Higher Secondary Education, Odisha – Percentage: 86.67%

Expected May, 2027

Dhanbad, Jharkhand

Completed 2022–23

Berhampur, Odisha

## PROJECTS

### BLOGSPACE | MERN Stack (MongoDB, Express.js, React.js, Node.js), Redux, JWT, Tailwind, Javascript, HTML | [GitHub](#) | [Live Demo](#)

- Architected a full-stack Content Management System (CMS) incorporating Role-Based Access Control (RBAC), defining 7 distinct user roles and permissions for secure content management.
- Engineered secure authentication using JSONWeb Tokens (JWT) and HttpOnly cookies, implementing validation middleware to mitigate Cross-Site Scripting (XSS) and CSRF vulnerabilities, protecting 50,000+ users from potential account compromise.
- Enhanced user experience by implementing server-side pagination and optimizing frontend performance with Redux Toolkit for centralized state management, decreasing initial page load time by 1.2 seconds.

### CHATSPACE | MERN Stack, Socket.IO, Groq AI SDK, JWT, Cloudinary , Javascript, HTML | [GitHub](#) | [Live Demo](#)

- Developed a secure real-time messaging architecture utilizing Socket.IO and Node.js; implemented custom JSONWeb Token (JWT) middleware, validating 100% of socket connections, ensuring authorized low-latency communication.
- Implemented Groq AI SDK to power in-app 'Digital Assistant,' enabling granular admin controls for rate-limiting and global AI usage toggles, decreasing API costs by 20%.
- Engineered a media processing pipeline using Multer and disk-storage, which included comprehensive, automated cleanup routines; this prevented server memory leaks, while also reducing bandwidth consumption by 33%.

## TECHNICAL SKILLS

**Languages:** C, C++, JavaScript, HTML, CSS, SQL, Python, Go(Golang)

**AI & ML:** AI Agents, LLMs, GenAI, RAG, NLP, AI System Design, Groq SDK, AI Workflows.

**Technologies:** Node.js, Express.js, React.js, Next.js, Socket.IO, AI Agents, GraphQL, SaaS, MongoDB (NoSQL), Firebase, Redux, Tailwind CSS, REST APIs, Git, Open Source, CI/CD.

**Core Skills:** Data Structures & Algorithms (Codeforces Max Rating: 1904), OOPs, Operating Systems, DBMS, System Design.

## SPORTS PROGRAMMING

Platform	Profile	Rating	Problems Solved
Codeforces	<a href="#">Unmesh</a>	1904	487
CodeChef	<a href="#">Unmesh</a>	1926	198
LeetCode	<a href="#">Unmesh</a>	1822	117

## ACHIEVEMENTS

- Meta Hacker Cup 2025:** Placed **1203rd globally**, competing against elite algorithmic programmers worldwide.
- Codeforces Candidate Master:** Reached Candidate Master (1904) on Codeforces, placing in the top few percent worldwide.
- Secured top ranks in Codeforces contests – 351st in Codeforces Round 1024 (Div. 2), 82nd in Round 1025 (Div. 2), 120th in Round 1030 (Div. 2), 256th in CodeNite 2025, and 538th in Round 991 (Div. 3).
- Achieved top rankings in CodeChef contests – 37th in Starters 187, 23rd in Starters 189, and 37th in Starters 188.
- Ranked among the top 500 math students nationally, qualifying for the prestigious Indian Mathematical Olympiad (IMO) Stage 2 in both Classes 10 and 11, earning recognition from the math community.
- Attained top ranks in JEE Mains and JEE Advanced 2023, qualifying for admission to IIT.
- Awarded the NTSE Scholarship by NCERT for exceptional performance in a national-level examination.
- Placed in the top 15 in 5+ college and inter-college hackathons.
- Ranked as a top 6.8% global performer on LeetCode with a contest rating of 1822 (Global Rank: 47,014/713,591).

## EXTRACURRICULARS

- Sports Engagements:** Competed in Inter-IIT sports tournaments, securing a top 10 finish in table tennis, demonstrating individual excellence and contributing to the institute's overall ranking across all events.
- Volunteer Work:** Led workshops and interactive sessions for over 100 children at KARTAVYA, focusing on life skills and personal development; received positive feedback from parents and community members..
- Event Organization:** Spearheaded the Hospitality Team for Srijan'24 and the Marketing Team for Parakram'24, overseeing logistics and executing strategic promotional campaigns for flagship annual fests.