

# AMRUTANSHU MISHRA

DOB: 12 July 2004    Junagarh, Kalahandi, Odisha

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## Education

### National Institute of Technology, Rourkela

*Bachelor of Technology in Computer Science and Engineering (CGPA - 9.71)*

August 2023 – Present

*Rourkela, Odisha*

### Mother's Public School, Bhubaneswar

*AISCCE – CBSE, Science (PCM) (Percentage - 95%)*

May 2023

*Bhubaneswar, Odisha*

### El Nissi Mission School, Junagarh

*AISSE – CBSE (Percentage - 94%)*

May 2021

*Junagarh, Odisha*

## Relevant Coursework

- Data Structures
- Database Management Systems
- Algorithms
- Object Oriented Programming

## Projects

### Virtual Sensor – Linux Character Device Driver

July 2025

*C, Linux Kernel, Device Drivers, Makefile, Bash*

- Built a Linux kernel module simulating a virtual temperature sensor via `/dev/virtual_sensor`.
- Handled user–kernel interaction using `read()`, `ioctl()`, and `file_operations`.
- Tested with C programs; ensured **100%** read/write success in simulations.

### Talkify – Real-Time Chat Application

December 2024 – January 2025

*React, Node.js, MongoDB, Socket.io, JWT, TailwindCSS, Daisy UI, Render*

*Visit My Website*

- Real-time chat app for **10+** users, handling **1000+** messages with sub-second latency.
- Secured **100%** of sessions using JWT-based authentication and access control.
- Boosted load speed by **25%** and responsiveness by **20%** via MVC and frontend optimizations.

### Converge – Video Conferencing Application

December 2024 – January 2025

*Next.js, TypeScript, Clerk, Stream, Vercel, GitHub*

*Visit the website*

- Scalable conferencing app for **50+** users with **10+** parallel meetings.
- Achieved **99.9%** uptime and cut video latency by **20%**.
- Enabled sub-**500ms** login with Clerk and ensured **95%** cross-browser compatibility.

## Achievements/Certifications

- **Algoblitz** March 2025  
Ranked **2nd** in a multi-year coding competition (1st–4th year) at NIT Rourkela.
- **Leetcode** February 2025  
Achieved a peak rating of **1802** on LeetCode and attained a global rank of **1430** in Weekly Contest **421**.
- **ALgo Utsav(Team Contest): A competitive programming competition** February 2025  
Secured **1st Rank** in a nationwide, team contest with **2500+** participants from top engineering colleges across India.
- **Codeforces: Specialist title** December 2024  
Earned the title of Specialist with a maximum rating of **1475** on Codeforces, a leading competitive programming platform, and secured an overall rank of **329 globally** in Codeforces **Round 993 (Div. 4)**.
- **CodeChef: Division 2 Coder** July 2024  
Attained a rating of **1665** on the CodeChef platform, holding the status of a **Division 2** participant CodeChef ID

## Technical Skills

- **Languages:** C, C++, Java, Python
- **Developer Tools:** VS Code, Sublime, Git & GitHub, Postman, Vercel, Render, Clerk
- **Technologies/Frameworks:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT, REST APIs

## Extracurricular Activities

### Algorithmic and Programming Society

December 2023 – Present

*Technical Member – Algorithmic and Programming Society*

*National Institute of Technology, Rourkela*

- Mentored **50+** students weekly in DSA and ICPC-style problem solving, strengthening their Codeforces and LeetCode performance.
- Organized programming contests with **1000+** participants, ensuring smooth execution and active engagement.