

N.S.S. Rupesh

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EDUCATION

National Institute of Technology Durgapur
Bachelor of Technology - Computer Science and Engineering
CGPA: 7.55 / 10

Durgapur, India
Nov 2022 – Jun 2026

COURSEWORK

Object-Oriented Programming, Data Structures and Algorithms, Operating Systems, Database Management System, Computer Networks, Computer Organization and Architecture, Software Engineering, Professional Communication.

SKILLS

- **Languages:** C++, Python, SQL, JavaScript
- **Web Development:** React, Django, FastAPI
- **Tools:** Linux, Docker, Git/GitHub, Github Actions, VS Code, Linux, Jupyter Notebooks, Pycharm
- **Technical Skills:** System Design, Database Management Systems, Data Structures & Algorithms, Problem Solving
- **Project-specific Skills:**
 - **Django Chat App:** User Authentication (Google OAuth), Real-Time Messaging, Dockerization, REST API Development, Admin Moderation
 - **DDoS Attack Detector:** Shannon Entropy Analysis, Flask-SocketIO, Real-Time Traffic Simulation, Web Dashboard Design, Deployment Optimization
- **Non-Technical Skills:** Time Management, Teamwork and Collaboration, Multilingual Communication

PROJECTS

Django Chat App

Live-Link

- Developed a real-time chat app using Django, Django Channels, WebSockets, Docker, PostgreSQL, and Redis enabling scalable deployments, async messaging, and robust database management.
- Integrated Google OAuth authentication, live user status, emoji reactions, and admin moderation for blocking users.
- Built public and private chat rooms accessible via unique codes and deployed seamlessly on cloud platforms.

DDoS Attack Detector (Entropy-Based)

Live-Link

- Built a real-time DDoS detection system using Shannon's entropy analysis of network traffic, achieving over 90% detection accuracy with 5% false positives.
- Developed a web dashboard using Flask, Flask-SocketIO, Chart.js, and Bootstrap for live entropy visualization, traffic simulation, and accuracy monitoring.

POSITIONS OF RESPONSIBILITY

RECursion - Official Programming Community of NIT Durgapur — Convener

Feb 2024 – Jun 2026

- Mentored 12 first-year students in programming, addressing queries and boosting their performance by 30-50%.
- Worked as a tester and moderator for RECode 28.0, verifying problem solutions and test cases for contests with 100+ participants.

Aarohan — Organizer

Sep 2025 – Oct 2025

- Organized and curated questions for Aarohan's global programming contest "Decathlon," assessing coding and mathematical skills of participants from 20+ regions.

ACHIEVEMENTS

- Solved 500+ problems on LeetCode, Codeforces, InterviewBit, and CSES Problem Sheet.
- Achieved AIR 9505 in JEE Main conducted by NTA.
- Achieved 2022 rank in EAPCET