

# Dheeraj Kumar

workdheerajkj@gmail.com | +91-9389296099 | LinkedIn: ImJoshiANE

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY

MASTER OF COMPUTER

APPLICATIONS

Grad. May 2025 (Expected)

Cum. GPA: 8.43\*

### KUMAUN UNIVERSITY, NAINITAL

BACHELOR OF SCIENCE

Grad. Nov 2021

Cum. GPA: 7.2

## SKILLS

Languages:

- Proficient: Javascript, C++
- Intermediate: Typescript, SQL
- Novice: C, Java, Python

Frameworks & Libraries

- ReactJS • NextJS • ExpressJS
- TailwindCSS • NodeJS
- Prisma • Mongoose • HTML+CSS

Database & Tools

- Redis • PostgreSQL • MongoDB
- CI/CD • Docker • Kubernetes
- Git • Github • Postman • VS Code

## LINKS

Codeforces: ANE

Leetcode: ImJoshiANE

Github: ImJoshiANE

LinkedIn: ImJoshiANE

Portfolio: ImJoshiANE

## COURSEWORK

Data Structures

Design And Analysis of Algorithm

Object Oriented Programming

Operating System

Database Management System

Computer Networking

Software Engineering

## ACHIEVEMENTS

- **Expert** (1600+ rated) at **Codeforces**.
- **Knight** (2100+ rated) at **LeetCode**.
- **Rank 2** in Logic Head - Competitive Programming Contest by the ACM NITT.
- **Led** the team and **won 1st prize** in app prototype design and presentation at the **G20 Summit** University Connect.
- Under **30/2K** Pre-Finalist, **TRINIT Hackathon** (All India)
- **AIR 24** in National Institute of Technology MCA Common Entrance Test.

## EXPERIENCE

### ACM, NIT TRICHY WEB MASTER

Developer

- Worked with a team of 3 to develop and test - event and contest websites.

Problem Setter:

- Problem setter for Acumen, a competitive programming contest by ACM NITT.

## PROJECTS

### OPINIFY TYPESCRIPT | NEXTJS | NODEJS | REDIS | POSTGRESQL |

PRISMA | TAILWIND CSS

Github | Live

- Implemented **customized feeds**, **infinite scrolling**, **advanced search**, and Redis in-memory **caching** to improve user experience and system performance.
- Users can **sign up**, **create and join** communities, make **text, image, video, and hybrid posts**, comment in **community discussions**, and **upvote/downvote** comments and posts.

### EXCHANGE NODEJS | WEBSOCKET | REDIS | POSTGRESQL | NEXTJS

Github

- Implemented **scalable WebSocket** servers using Node.js and Redis **Pub/Sub**, enhancing real-time communication and system performance.
- Built an **in-memory trading engine** that maintains order books and performs order matching, optimizing trade execution speed and system efficiency.
- Utilized **PostgreSQL**, **TimescaleDB**, and **Redis queues** to enhance data management, real-time processing, and system performance.

### INFOTREK REACTJS | NODEJS | MONGODB | EXPRESSJS

Github | Live

- **Led** a team of 3 to develop a web platform for Infotrek events, used by **over 300** NIT Trichy students.
- Implemented **REST APIs** with endpoint protection and **rate limiting**, enabling CRUD operations for event and user data. Incorporated robust **user authentication**, **authorization**, and complete **client-side rendering**.

## EXTRACURRICULAR ACTIVITIES:

### THE OGMA PERSONALITY DEVELOPMENT CLUB OF NIT TRICHY

Coordinator

- Hosted multiple club events, showcasing strong public speaking skills.
- Mentored junior students in their academic and professional development.