

Rahul Kumar

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Summary

A passionate B.Tech Computer Science & IT student skilled in full-stack development with expertise in Django, React.js, and Java. Strong in DSA with 200+ problems solved on [LeetCode](#). Experienced in building scalable web applications and enterprise solutions, with a focus on performance optimization and clean coding. A fast learner, driven to develop innovative solutions. Also deeply interested in trading, stock markets, and project financial planning, applying analytical skills for risk assessment and cost optimization.

Education

B.Tech. in Computer Science & IT (Honors Through Experiential Learning)
Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh
GPA: 9.39 Jul 2023 - Aug 2027

Projects

Virtual Classroom System [GitHub](#) — [Live Demo](#)

- Engineered full-stack virtual classroom platform using **React.js**, **Node.js**, **Express**, and **MongoDB** with RESTful API architecture
- Integrated **WebRTC** technology via **Jitsi Meet API**, reducing video conferencing latency by 40% compared to previous solutions
- Developed real-time communication system using **Socket.IO**, enabling instantaneous message delivery for 100+ concurrent users
- Implemented secure cloud storage solution with **Cloudinary**, supporting 500MB+ of educational resources with 99.9% availability
- Established automated **CI/CD pipeline** on **Render.com**, reducing deployment time by 60% and ensuring 99.9% uptime
- Designed extensible system architecture with API hooks for future AI integration (attendance tracking, automated grading)

Real-Time Chat Application (MERN) [Deployed Link](#) — [GitHub](#)

- Developed a real-time chat platform using MERN stack, Socket.IO, and JWT authentication, supporting 500+ concurrent users
- Integrated Cloudinary for secure profile picture and media uploads, ensuring seamless file sharing
- Designed an attractive, responsive UI/UX with Tailwind CSS and DaisyUI, optimizing user experience
- Optimized API response time by 60% and deployed on Render with CI/CD pipelines, achieving 99.9% uptime and handling 5000+ daily messages

Technical Skills

- Programming Languages:** Proficient in Java, Python, JavaScript, C, and SQL.
- Frameworks & Libraries:** Experienced with Django, React.js, Node.js, and Spring Boot.
- Web Technologies:** Skilled in HTML, CSS, Tailwind CSS, and RESTful API development.
- Databases:** Familiar with MongoDB, MySQL, PostgreSQL, and SQLite.
- Core CS Concepts:** Operating Systems, Data Structures & Algorithms, Algorithm Design, Object-Oriented Programming (OOP)
- AI & Machine Learning:** Knowledge of Natural Language Processing (NLP) and ML algorithms.

Work Experience

Cloud Virtual Intern AICTE & AWS Academy Jan 2024 - Mar 2024

- Completed 10-week AWS Cloud/AI-ML program, designing 5+ architectures with EC2, S3, Lambda
- Deployed 3 ML models via SageMaker and worked on CI/CD pipelines, Infrastructure-as-Code

Social Intern Student Activity Center (SAC), K L University Aug 2024 - Sep 2024

- Assisted 50+ individuals in overcoming challenges, enhancing communication skills
- Organized 4+ community engagement events, increasing student participation

Mentor/Technical Apeksha Club, K L University Jan 2023 - Jul 2024

- Mentored 15+ juniors in Python, Java, and problem-solving
- Conducted 3 workshops on algorithm design and optimized solutions
- Volunteered in organizing 2+ hackathon competitions, leading teams in event planning, logistics, and participant coordination, ensuring seamless execution.

Certifications

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|---|------------|----------|
| • Programming in Java | NPTEL | Nov 2024 |
| • Salesforce Certified AI Associate | Salesforce | Sep 2024 |
| • Database Management System | NPTEL | Nov 2024 |
| • MongoDB Associate Developer | MongoDB | Mar 2025 |
| • Linguaskill(B1 Grade)-Demonstrates strong communication skills in English | | |

Awards & Achievements

- Winner - College Level Coding Competition (ZeroOne Code Club Ladder 0.1) ZeroOne Code Club
- Finalist - AixPlainX Hackathon (Shortlisted for business model idea on education in rural areas)
- Runner-up – Google Developer Group (KL University) Hackathon (Internal Round) 2024
- Stayed Updated with Technology Trends:Regularly reading articles, attending webinars.