Rahul Kumar

📍 Bettiah, Bihar ● 📞 +91 9508865788 ● ✉ alexrahul9576@gmail.com ● 🔗 LinkedIn ● 🐙 GitHub

Summary — PortFolio

A passionate B.Tech Computer Science & IT student skilled in full-stack development with expertise in Django, React.js, and Java. Strong in Data Structures and Algorithms with 250+ problems solved on LeetCode and a 3★ CodeChef rating. Experienced in building scalable web applications and enterprise solutions with a focus on performance optimization and clean code practices. A fast learner, driven to develop innovative solutions. Additionally, 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: 9.44   Jul 2023 – Aug 2027

Projects

AI-Enabled Virtual Classroom System   GitHub — Live Demo
- Developed a full-stack virtual classroom using React.js, Node.js, Express, and MongoDB, adhering to RESTful API design
- Integrated low-latency video conferencing with Jitsi Meet API and WebRTC, improving performance by 40%
- Implemented real-time messaging and collaboration for 100+ users using Socket.IO
- Integrated AI-powered module using OpenAI API to auto-generate personalized assignments from lecture transcripts
- Integrated multilingual AI chatbot capable of responding in native languages using NLP techniques and OpenAI's language models
- Automated CI/CD deployment pipeline on Render.com, achieving 60% faster rollout with high uptime
- Designed modular architecture with API hooks for scalable AI features like attendance tracking and grading automation

Real-Time Chat Application (MERN)   GitHub — Live Demo
- 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:** Java, Python, JavaScript, C, and SQL.
- **Frameworks & Libraries:** Django, React.js, Node.js, and Spring Boot.
- **Web Technologies:** HTML, CSS, Tailwind CSS, and RESTful API development.
- **Databases:** MongoDB, MySQL
- **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

Android Developer Virtual Intern   AICTE & EduSkills (Google for Developers)   Apr 2025 – Jun 2025
- Completed a 10-week Android Development program focusing on mobile application lifecycle and best practices
- Built and tested multiple Android apps using Kotlin and XML layouts, integrating Firebase and REST APIs
- Gained practical exposure in UI/UX design, app architecture, and publishing workflow

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

- Programming in Java   NPTEL
- Salesforce Certified AI Associate   Salesforce
- Database Management System   NPTEL
- MongoDB Associate Developer   MongoDB
- Linguaskill (B1 Grade) – Demonstrates strong English communication skills   Cambridge Assessment

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)   AixPlainX
- Runner-up – Google Developer Group (KL University) Hackathon (Internal Round) 2024   GDG (kl university)