Rahul Kumar

📍 Bettiah, Bihar • 📞 +91 9508865788 • ✉ alexrahul9576@gmail.com

🌐 [Portfolio](#) • 🔗 [linkedin.com/in/rahuly1606](#) • 💻 [github.com/Rahuly1606](#)

Professional Summary

An ambitious B.Tech Computer Science student with strong programming and system-level software understanding (Java, Python, Linux). Experienced in cloud-native development, containerized deployments, and full-stack applications. Passionate about building scalable, reliable systems and collaborating in global, cross-functional teams.

Education

B.Tech in Computer Science & IT (Honors Through Experiential Learning)

Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh   July 2023 – August 2027

GPA: 9.44

Technical & Consulting Skills

- **Programming & Systems:** C, Java, Python, OS Concepts (Unix/Linux), Data Structures & Algorithms, Networking
- **Frontend & UI:** ReactJS, HTML5, CSS3, Tailwind CSS
- **Backend & APIs:** Node.js/Express, Django, RESTful API development, Authentication
- **Cloud & DevOps:** AWS (EC2, Lambda, S3), Docker, CI/CD, Microservices
- **AI/ML:** OpenAI APIs, NLP, AIML, GAN
- **Consulting Skills:** Requirements analysis, Stakeholder communication, Scoping, Risk mitigation

Projects

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

- Built a scalable full-stack virtual classroom using React, Node.js, Express, and MongoDB, with modular APIs, automated CI/CD on Render, and improved deployment lead time.
- Integrated low-latency video conferencing through Jitsi/WebRTC and real-time messaging with Socket.IO, supporting more than 100 concurrent users.
- Added AI features: OpenAI-based assignment generation from transcripts and a multilingual chatbot for student support.

ArcFace Attendance System (Face Logbook)   [GitHub](#) — [Live Demo](#)

- Built an InsightFace + FAISS attendance system with under 100 ms latency and 50–200 times faster matching for over 100,000 faces.
- Developed a Flask REST API with SQLAlchemy, JWT authentication, MySQL backend, and a React dashboard for bulk import and real-time analytics.
- Deployed a Dockerized CV pipeline using OpenCV, NumPy, caching, and auto-tuned FAISS indexing (Flat/IVF/HNSW).

Vaani Connect (EPICS with Purdue University) — Backend Developer (Ongoing)   [GitHub](#)

- Developing a backend for a voice-translation app: dialect-aware NLP pipelines, language detection, and image-to-voice processing.
- Implemented REST endpoints and queue-based audio transcription/TTS for resilient UX under poor network conditions.
- Collaborating with an international team to define features, define API contracts, and plan testing/deployments.

Experience

Infosys Springboard Intern (AI/ML Track) – Infosys Limited   Present

- Built an end-to-end semantic search pipeline for QueryTube (YouTube data + transcripts → embeddings → index).
- Benchmarked SentenceTransformers models and similarity metrics; tuned top-k and thresholds to improve retrieval (top-1/top-3 recall).
- Delivered a Gradio demo for stakeholders and handled scoping, requirement translation, and progress reporting.

Mentor & Technical Lead (Apeksha Club, KL University)   Jan 2023 – Jul 2024

- Mentored 15+ juniors on Python, Java, and algorithms; conducted workshops on algorithm design and optimization.
- Organized hackathons and coordinated logistics and participants, practicing stakeholder management and event delivery.

Certifications

- GitHub Foundation   GitHub
- Programming in Java   NPTEL
- Salesforce Certified AI Associate   Salesforce
- MongoDB Certified Developer   MongoDB
- Linguaskill (B1) – Strong English communication   Cambridge Assessment

Awards & Achievements

- Winner — College Coding Competition (ZeroOne Code Club Ladder 0.1)
- Finalist — AixPlainX Hackathon (education project for rural areas)
- Runner-up — GDG (KL University) Hackathon (Internal Round) 2024

Additional: Solved 300+ problems on [LeetCode](#); active on [CodeChef](#)