

Rahul Kumar

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Professional Summary

Motivated B.Tech student specializing in Computer Science & IT with strong full-stack development experience (Django, React, Node) and practical cloud exposure (AWS, Azure). Proven ability to translate business requirements into technical solutions and deliver scalable systems. Skilled in stakeholder communication and comfortable in client-facing and pre-sales settings, with experience in risk and issue identification and mitigation. Excited to contribute as a Technology Consulting Intern focused on aligning technical solutions with customer outcomes.

Education

B.Tech in Computer Science & IT (Honors Through Experiential Learning)
Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh
GPA: 9.44
July 2023 — August 2027

Technical & Consulting Skills

- **Programming & Core CS:** Java, Python, JavaScript, C, SQL; Data Structures & Algorithms, OOP, System Design.
- **Frontend:** React.js, HTML5, CSS3, Tailwind CSS, DaisyUI.
- **Backend & APIs:** Django, Node.js/Express, Spring Boot, RESTful API development.
- **Cloud, DevOps & Databases:** AWS (EC2, S3, Lambda, SageMaker), Azure; CI/CD, MongoDB, MySQL, SQLite.
- **Real-Time & AI:** Socket.IO; OpenAI APIs, NLP, SentenceTransformers, InsightFace (ArcFace).
- **Consulting Skills:** Requirements analysis, stakeholder communication, scoping, risk mitigation.

Projects

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

- Scalable full-stack (React, Node, Express, MongoDB) with modular APIs and automated CI/CD.
- Low-latency video via Jitsi + WebRTC; Socket.IO for real-time messaging supporting 100+ concurrent users.
- AI features: OpenAI-based assignment generation from transcripts and a multilingual support chatbot.

ArcFace Attendance System (Face Logbook) [GitHub](#)

- ArcFace-based attendance (Flask, OpenCV); produce 512-D embeddings stored in SQLite/MySQL.
- Recognition by cosine similarity (threshold 0.6–0.65) with duplicate avoidance and in/out time logic.
- Admin CRUD + verification UI; optimized for CPU inference and stable group/live deployments.

Vaani Connect (EPICS with Purdue University) — Backend Developer
Technologies: Python, NLP libraries, Translation APIs, Speech/Audio processing

- Backend for a voice-translation app: dialect-aware NLP pipelines, language detection, and image-to-voice flows.
- Implemented REST endpoints and queue-based audio transcription / TTS processing for resilient UX on poor networks.
- Collaborated with an international EPICS team to scope features, define API contracts, and plan testing/deployments.

Experience

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

- Built an end-to-end AI semantic search pipeline for QueryTube (YouTube data + transcript → embeddings → index).
- Benchmarked SentenceTransformer models and similarity metrics; tuned top k / thresholds to boost 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; ran workshops on algorithm design and optimization.
- Organized hackathons, coordinated logistics, and participants - practicing stakeholder coordination and event delivery.

Certifications

- Programming in Java NPTEL
- Salesforce Certified AI Associate Salesforce
- Database Management Systems NPTEL
- 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 250+ problems on [LeetCode](#); active on [CodeChef](#) (rated demonstrated). Interests: trading, stock markets, financial planning for projects.