RONACK KUMAR

Full Stack & AI Engineer

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Summary

Full Stack and AI Engineer pursuing an MCA at SRM Institute of Science and Technology (CGPA 9.08/10), with 3 software development internships building FastAPI and Node.js backends, LangGraph multi-agent LLM systems, and full-stack Next.js applications. Built and deployed 2 live AI products (InterviewAI, OfferSafe) using Groq, Gemini, and Supabase. Seeking Backend, AI/ML, or Full Stack Software Engineer roles.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, HTML5, CSS3
AI / ML: LangGraph, LangChain, RAG, LLM APIs (Groq, Gemini, OpenAI), Prompt Engineering, Semantic Search, Vector Embeddings, NLP, Scikit-learn, Pandas, NumPy, NLTK
Backend: FastAPI, Node.js, Express.js, SQLAlchemy, Pydantic, REST APIs, JWT Authentication, RBAC, Swagger/OpenAPI
Frontend: React.js, Next.js, Tailwind CSS, Streamlit
Databases: PostgreSQL, pgvector, MongoDB, MySQL, SQLite, Supabase
Tools & Testing: Git, GitHub, Pytest, Playwright, Vercel

Experience

8 Queens Software Private Limited **Aug 2026 – Sep 2026**
Software Developer Intern Chennai, India (On-site)

- Engineered GRID07, a multi-agent AI platform using LangGraph, FastAPI, and Next.js that routes user queries to expert personas and executes them across 6 LLM provider integrations, including Groq, Gemini, OpenAI, and OpenRouter.
- Built a semantic persona router using 384-dimensional feature-hashed embeddings, NumPy cosine similarity, domain-overlap scoring, and topic continuity, plus a LangGraph workflow for search, retrieval, and response synthesis.
- Implemented layered security: prompt-injection defense (regex heuristics, delimiter quarantine, system-level persona locking), a Fernet-encrypted API key vault, and SSRF protection.
- Built async REST APIs (FastAPI, SQLAlchemy 2.0, Pydantic v2, JWT) on PostgreSQL/pgvector and SQLite; 80+ Pytest tests.

B2World **Jul 2026 – Aug 2026**
Software Developer Intern Remote

- Developed features for DriveLearn India, a full-stack SaaS platform that digitizes driving school operations and provides a marketplace for learners to discover, compare, and enroll in driving schools.
- Implemented features for role-based access, school management, student and instructor workflows, course management, booking and scheduling, and analytics on a modular RESTful architecture (React.js, Node.js, PostgreSQL/MySQL, JWT).

IT Developer **Aug 2024 – Oct 2024**
MERN Full Stack Web Developer Intern Rourkela, Odisha

- Developed a Result Management System on the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Delivered frontend and backend modules, REST APIs, and MongoDB database integration for the application.

Projects

InterviewAI | Next.js, React.js, Groq API (Llama 3.3 70B), Supabase Live Demo | GitHub

- Built and deployed a full-stack AI mock interview platform (Technical, HR, Case Study) with text, voice, and video answers.
- Scored answers on 4 dimensions (accuracy, clarity, depth, confidence) with AI feedback, saved session history with progress charts, and added 2-person peer interview rooms with an observer mode.

OfferSafe | Next.js, TypeScript, Supabase, Gemini API, Groq API, Tailwind CSS Live Demo | GitHub

- Built and deployed an AI scam risk analyzer that scores job and internship offers for students and job seekers in India.
- Combined 5 detection signals (email validation, CIN checks, payment red flags, scam mentions, AI risk analysis) and cross-referenced every scan against a community scam report database.

Finance Workspace | Express, TypeScript, Prisma, SQLite GitHub

· Built a workspace-scoped REST API with session membership checks and role-based access for viewers, analysts, and admins.
· Implemented exact paise arithmetic, soft deletes, filtering, pagination, CSV export, and dashboard reporting.

WhatsApp Chat Analysis | Python, Streamlit, Pandas, Scikit-learn, NLTK GitHub

- Built an 8-tab interactive dashboard with EDA, activity heatmaps, VADER sentiment analysis, and LDA topic modelling.
- Trained a TF-IDF spam classifier (Naive Bayes, Logistic Regression) and a Random Forest active user predictor.

Education

Master of Computer Applications (MCA), SRM Institute of Science and Technology, Chennai CGPA 9.08/10 | 2025 – 2027
Bachelor of Computer Applications (BCA), Arka Jain University, Jharkhand CGPA 7.54/10
Class XII (NIOS), D.B.M.S Career Academy, Jamshedpur – 76% | **Class X (CBSE)**, Central Public School, Adityapur – 96%
Relevant Coursework: Data Structures & Algorithms, DBMS, OOP, Operating Systems, Computer Networks, AI, ML

Certifications

IBM Machine Learning Professional Certificate – IBM, Nov 2024 | **Software Engineering Specialization** – HKUST, Mar 2025