ROHIT KUMAR S

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Professional Summary

Full-Stack Developer with 6 months shipping production-grade multi-tenant SaaS platforms in Python, Django REST Framework, and React/Next.js, plus hands-on **AI engineering experience building retrieval-augmented generation (RAG) systems**.

Technical Skills

Languages: Python, JavaScript (ES6+), TypeScript, Java, SQL

AI/ML: RAG, Vector Embeddings, Hybrid Search, Reranking, LangChain, LangGraph, OpenAI API, pgvector, OCR

Backend: Django, Django REST Framework, REST APIs, Celery, Redis, WebSockets, JWT, OAuth 2.0

Frontend: React.js, Next.js, Redux, Zustand, Tailwind CSS, MUI

Databases & Cloud: PostgreSQL, MySQL, OpenSearch, AWS (S3, EC2), Docker, Git, CI/CD

Experience

Software Developer Intern (Full Stack) — Karmaa Lab Pvt. Ltd. *Jan 2026 – Present*

- Shipped features across the full SDLC for **2 SaaS products** (multi-tenant LMS, headless CMS + corporate website).
- Owned backend delivery for the **LearnNet LMS** — **40+ REST APIs**, **JWT auth**, **seven-role RBAC** — cutting unauthorized-access incidents to zero.
- Led the **WordPress to Django 5.2 + DRF** CMS migration with **zero downtime**, exposing versioned REST APIs across all content types.
- Built reusable **React.js/Next.js** components via a shared library, improving development velocity by **30%**.
- Collaborated cross-functionally in an **Agile/Scrum** environment, translating requirements into production releases.

Projects

eSamvad — AI Document Intelligence Platform (RAG) *May – Aug 2026*
Django 5.2, DRF, LangChain, LangGraph, OpenAI, Cohere, PostgreSQL/pgvector, OpenSearch, Celery, AWS S3 *Personal Project*

- Built a **hybrid RAG pipeline** fusing dense **pgvector** search with sparse Postgres full-text search via **Reciprocal Rank Fusion**, then **Cohere cross-encoder reranking** to a top-5 context window — keeping 1,000+ page documents within LLM context limits.
- Engineered an **async ingestion pipeline** (**Celery**/Redis) — PDF conversion, text extraction with **Tesseract OCR fallback**, chunking, embedding, and dual **pgvector + OpenSearch** indexing — with backoff retries and idempotent reprocessing.
- Designed pluggable **LLM, vector-store, and reranker abstractions** for runtime provider switching, with **token-streaming** answers over **WebSockets** (Django Channels).
- Delivered **105 REST endpoints** across **24 multi-tenant services** with per-tenant AI quotas and Stripe usage metering, covered by **335 automated tests**.

Skills Used: Python, Django 5.2, DRF, LangChain, RAG, pgvector, OpenSearch, Cohere Rerank, Celery, Redis, AWS S3, Docker

LearnNet — Multi-Tenant E-Learning Platform (LMS) *Jan – Apr 2026*
Django 5.2, DRF, Next.js 16, React.js, PostgreSQL, JWT, AWS S3, MUI v9, Zustand *Karmaa Lab*

- Architected a **multi-tenant LMS** backend with a dynamic org taxonomy engine and module-level **seven-role RBAC**.
- Built a cross-product **user identity system** (platform-wide KLID + contextual Enrollment ID) for unified tracking.
- Developed **40+ REST API endpoints** (courses, enrollment, gradebook, live sessions, gamification) with AWS S3 storage.
- Implemented **JWT auth** with role-aware redirects on Next.js 16 (App Router) using MUI v9 and Zustand.

Skills Used: Django 5.2, DRF, Next.js 16, React.js, PostgreSQL, JWT, AWS S3, MUI v9, Zustand, MPTT

Education

Sri Krishna College of Engineering and Technology, Coimbatore, India *Aug 2022 – Mar 2025*
B.E. in Computer Science and Engineering CGPA: 7.12/10

Acharya Polytechnic, Bengaluru, India *Jun 2018 – Dec 2021*
Diploma in Aeronautical Engineering 69.4%

Certifications

Salesforce AI Associate — Salesforce *January 2025*

Additional Information

Languages: English (Advanced), Kannada (Fluent — Speaking), Tamil (Intermediate), Hindi (Basic)

Interests: Open-Source Contribution, System Design, Badminton