

# Rajshekar RC

Full Stack Developer | AI Engineer | GenAI Developer

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## SUMMARY

Full Stack Developer and AI Engineer who ships production AI systems end-to-end. Built a 5-agent LangGraph research pipeline (35% F1 over RAG baseline) and a production AI resume analyzer with 5 LLM endpoints. Strong in Python, FastAPI, React.js, Next.js, LLMs, RAG, and multi-agent systems. Seeking AI Engineering, GenAI, and Full Stack roles.

## SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, SQL, Java

**Frontend:** React.js, Next.js, Tailwind CSS, HTML5, CSS3

**Backend:** Node.js, Express.js, Flask, FastAPI, REST APIs

**Databases:** MongoDB, MySQL, ChromaDB, Vector Databases

**AI / ML:** LLMs, RAG, LangGraph, LangChain, Multi-Agent

Systems, Prompt Engineering, Embeddings, Groq, Gemini, OpenAI, Anthropic Claude, Pydantic, NumPy

**Computer Vision:** MediaPipe, OpenCV, Real-Time Tracking

**Tools & Platforms:** Git, GitHub, Vercel, Render, Linux

**Core Concepts:** DSA, OOP, System Design, Eval-Driven Development, Authentication

## EXPERIENCE

### Full Stack Developer Intern

May 2025 – Aug 2025

Global Quest Technologies, Bangalore, Karnataka

- Engineered a production-ready e-commerce platform with product catalog, authentication, cart, and order processing using React.js, Express.js, and MongoDB, delivering 5+ core features end-to-end.
- Designed and optimized 10+ RESTful APIs improving database query efficiency and eliminating redundant server-side operations across the application.
- Built a fully responsive mobile-first UI across 8+ pages ensuring seamless UX across all screen sizes and devices.

## PROJECTS

### Agentic Research Assistant | Python, FastAPI, LangGraph, Next.js, Groq, Tavily, Pytest, Render, Vercel | Live Demo 2026

- Shipped a 5-agent LangGraph research system (Planner, Searcher, FactChecker, Writer, Critic) with a Critic→Writer revision loop, deployed across Render (FastAPI) and Vercel (Next.js) with Groq→Gemini failover and live health monitoring.
- Delivered **35% F1 gain** (0.055→0.074) over RAG baseline on HotpotQA, **cut hallucination 41%→22%** via fact-checking, and trimmed multi-hop latency ~40% via parallel `asyncio.gather` search; validated by a 134-test pytest suite (4s CI).

### ResumeIQ | Python, Flask, React.js, Groq LLM, RAG, ChromaDB, Pydantic | Live Demo 2026

- Shipped a production AI resume analyzer in 15 days with 5 LLM endpoints (ATS scoring, JD matching, keyword extraction, bullet rewriting) and a 2-stage RAG pipeline indexing 53 job descriptions via ChromaDB and Llama 3.3 70B on Groq (25× latency gain, avg 1.25s).
- Engineered structured-output reliability using Pydantic v2 schema validation with auto-retry, achieving 100% schema validity across 15 eval cases and verified prompt-injection defense against adversarial inputs.

### Esophageal Cancer Detection | Python, Machine Learning, Pandas, NumPy 2025

- Built a medical ML classification pipeline with preprocessing, feature engineering, model training, and accuracy benchmarking, delivering measurable improvement over baseline using production-level data science practices.

### Real-Time Iris Detection System | Python, MediaPipe, OpenCV, Computer Vision 2025

- Built a real-time iris localization and eye-tracking system using MediaPipe and OpenCV facial landmarks, processing 30+ FPS for smooth low-latency live-feed performance.

## EDUCATION

### PES Institute of Technology & Management

Bachelor of Engineering in Computer Science

Shivamogga, Karnataka

Dec 2021 – Jun 2025

## CERTIFICATIONS

Generative AI Mastermind – Outskill

Mar 2025

Python Using AI – AI For Techies

Aug 2025

Detect, Analyze, and Recognize Faces – Microsoft Learn

Nov 2025

Generate Images with AI – Microsoft Learn

Oct 2025

## LANGUAGES

English | Kannada | Hindi