RAHUL VISHNU RATHOD

Python Developer · Backend Development · Generative AI · RAG

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GitHub: github.com/rahulprojectcoding-commits/documind Live Demo: doccumind.duckdns.org

PROFESSIONAL SUMMARY

Python Developer / Backend Developer with 5+ years of experience at Tata Consultancy Services supporting production applications for global energy and enterprise clients. Hands-on with Python, Django, REST API development, ORM, troubleshooting, testing, incident management, and deployment support. Built and deployed DocuMind, an AI-powered RAG platform using Django, Django REST Framework, Google Gemini, PostgreSQL/pgvector, Celery, Redis, Docker, and AWS EC2.

TECHNICAL SKILLS

Languages & Automation	Python, SQL, Python Automation
Backend & APIs	Django, Django REST Framework, API Development, REST APIs, Django ORM
Generative AI	RAG, Embeddings, Vector Search, Google Gemini, Prompt Engineering
Data, Testing & Infra	PostgreSQL, pgvector, Celery, Redis, Docker, Gunicorn, nginx, AWS EC2, Django TestCase, Git, UAT, CI/CD support

PROFESSIONAL EXPERIENCE

System Engineer · Tata Consultancy Services (TCS) Mar 2021 – Apr 2026

Shell Group · Application Support Developer · Apr 2022 – Sep 2024

- Supported production Python/Django applications across Shell ITIBV, Shell Trinidad & Tobago, and QGC Pty Ltd; monitored applications, investigated defects, and delivered fixes.
- Resolved issues across REST API layers, Django ORM queries, and data-processing pipelines; validated fixes with Postman and documented resolutions.
- Adapted across multiple codebases and support processes while coordinating with client stakeholders and maintaining production stability.

Seadrill Management Limited · Application Support · Mar 2021 – Oct 2021

- Performed health checks, incident triage, troubleshooting, resolution, and escalation for business-critical systems; coordinated with onshore/offshore stakeholders.

General Electric Company · Bench / Upskilling · Apr 2025 – Aug 2025

- Strengthened Python, REST API development practices, and Generative AI knowledge while maintaining readiness for project allocation.

Citibank, N.A. · Allocation / Pre-Project Phase · Feb 2026 – Mar 2026

- Participated in client onboarding and evaluation activities; developed banking-domain and compliance-aware software development knowledge.

FEATURED PROJECT

DocuMind · AI-Powered RAG Document Q&A Platform Personal Project · June 2026 - Present

Python · Django · DRF · Gemini · PostgreSQL/pgvector · Celery · Redis · Docker · Gunicorn · nginx · AWS EC2 · HTMX

- Built and deployed a full-stack document Q&A platform supporting PDF/TXT uploads, semantic retrieval, and grounded Gemini answers.
- Implemented extraction, 800-word chunking with 100-word overlap, 768-dimensional Gemini embeddings, and PostgreSQL/pgvector cosine search with top-5 retrieval.
- Built asynchronous ingestion with Celery/Redis, HTMX processing-status polling, email OTP signup/login, per-user document isolation, and a token-authenticated DRF API.
- Containerized and deployed on AWS EC2 using Docker Compose, Gunicorn, nginx, Let's Encrypt HTTPS, PostgreSQL/pgvector, and Redis; added 15 Django tests covering core functionality and security.

EDUCATION & CERTIFICATIONS

B.E. – Mechanical Engineering 2015 – 2019

Prof. Ram Meghe Institute of Technology & Research, Badnera · Amravati University · 63%

- Generative AI Foundation Curriculum – Tata Consultancy Services (Feb 2024)
- TCS Initial Learning Programme (iLP) – Tata Consultancy Services (Mar 2021)
- Hackathon Participant (Technology) · Athena & HackerRank assessments · T-Factor Score: 2.99