

Nitish Kushwaha

Python Developer | Backend & AI Engineering

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SUMMARY

Python Developer with 1.5+ years of professional experience building and delivering production software across client projects. Comfortable taking ownership of a requirement from understanding the problem and designing the solution to implementation, integration, deployment, and troubleshooting. Experienced working independently on complete features and backend systems in Python, while also collaborating with frontend and engineering teams to deliver projects under real client requirements and deadlines. Strong problem-solving mindset with a focus on building practical, maintainable solutions and getting things shipped.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Backend: FastAPI, Django, Django REST Framework, REST APIs, Async Programming, WebSockets, Server-Sent Events, Celery

AI / LLM: OpenAI, Google Gemini, LangGraph, LangChain, LLMs, RAG, Function Calling, Structured Outputs, Prompt Engineering, Pinecone

Databases: PostgreSQL, Redis, Supabase, SQLAlchemy, Django ORM, Database Design, Database Migrations

Frontend: React, Next.js, TypeScript, Tailwind CSS

Real-Time: LiveKit, WebRTC, Twilio, SIP/PSTN

Cloud & DevOps: Docker, AWS, Azure, GCP, GitHub Actions, Nginx, CI/CD

Auth & Security: JWT/JWKS, OAuth2, RBAC, Row-Level Security

Automation & Testing Tools: Pytest, pytest-asyncio, Postman, Git, Stripe, n8n

EXPERIENCE

Excellence Technologies

Python Developer

Noida, India
Jan 2025 – Present

- Owned backend architecture and implementation end-to-end for 10+ client SaaS products in **Python**, using **FastAPI** and **Django**, covering schema design, REST APIs, authentication, background processing, and third-party integrations.
- Built and integrated AI capabilities across 8+ engagements, including **LangGraph** multi-agent workflows, **RAG** pipelines, LLM-powered document processing, and **LiveKit** real-time voice agents.
- Adapted delivery model to project needs across engagements – owning backend independently, building full-stack features with **React/Next.js**, or collaborating with separate frontend and engineering teams – while writing **Pytest** test suites to keep changes safe under client deadlines.
- Diagnosed and resolved production issues under client deadlines, including a 3-day rescue engagement where 9 root-cause issues in a live voice AI system were identified from call transcripts and code history without direct live-call access.

PROJECTS

Staffmind — Multi-Tenant Voice AI SaaS

FastAPI, LiveKit, PostgreSQL, Twilio, Stripe, Docker

- Built the entire **FastAPI backend** and two independent **LiveKit voice-agent workers** for a multi-tenant AI platform supporting appointment booking, calendar integration, billing, and role-based access.
- Designed and wrote **50+ PostgreSQL migrations** for a 30+ table multi-tenant schema, including a phased migration from business-wide to location-scoped data without breaking existing data.
- Diagnosed and fixed an **N+1 query** in a live-call email retrieval tool, reducing response latency from **11s to 2.1s**.

Founder's Lab — AI Co-Founder Platform

Django, Django REST Framework, LangGraph, OpenAI, PostgreSQL, Redis, Pinecone

- Built the complete **Django ASGI backend** for an AI Co-Founder assistant that validates startup ideas, generates personalized 7-step roadmaps, performs market research, and finds relevant experts.
- Designed two independent **LangGraph workflows**: a router-driven conversational agent and a structured roadmap workflow, with specialized agents and tools for different user tasks.
- Built the backend APIs, persistent chat sessions, LangGraph checkpointing, token-usage controls, and real-time agent-progress streaming using **Django REST Framework** and **Django Channels**.

StructureIQ — AI Construction-Document Analyzer

FastAPI, Next.js, PostgreSQL, GPT-4o Vision, Docker

- Built the product end-to-end, including the **FastAPI backend**, PostgreSQL schema, authentication, PDF upload, SSE progress streaming, AI extraction pipeline, and Next.js frontend.
- Designed a hybrid document-processing pipeline that routes pages between text extraction and **GPT-4o Vision** based on document characteristics, with support for scanned and graphical construction drawings.
- Diagnosed large-PDF memory failures and replaced the extraction approach with lazy per-page loading, enabling processing of a **167-page document** that previously failed around 50 pages.

EDUCATION

SGT University, Gurugram

Master of Computer Applications (MCA) | GPA: 8.10

2023–2025

Maer's Institute of Arts, Commerce and Science College, Pune

Bachelor of Science (B.Sc.) | GPA: 8.40

2017–2023