

Abdul Azeem

Backend Developer

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PROFESSIONAL SUMMARY

Backend Developer with 4+ years of experience building Python backends for fintech, accounting, and AI/LLM products. Shipped 7+ production systems at Kavion.ai for SAP, Razorpay, and WhatsApp Business, while leading 3 AWS Lambda microservices with resilient async integrations.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL

Backend Frameworks: Django, Django REST Framework, FastAPI, Celery, Django Channels, Node.js, Express, GraphQL

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

Databases: PostgreSQL, MongoDB, Redis, MySQL, MSSQL, pgvector

Cloud & Infrastructure: AWS (Lambda, SES, S3), Railway, Docker, docker-compose, Nginx, GitHub Actions, Linux, Git

AI / LLM / Agentic: OpenAI SDK, Anthropic SDK (Claude), Mistral OCR, LangGraph, Ollama, RAG pipelines, semantic search, tool use, structured extraction, embedding pipelines, prompt engineering

Integrations: QuickBooks Online (OAuth + Bill push), Xero (OAuth + Invoice push), Stripe (Checkout, Subscriptions, Webhooks, Customer Portal), Razorpay, PhonePe, SAP (PO / Invoice), WhatsApp Business API, Gumlet DRM

Architecture: Multi-tenant SaaS, Microservices, Serverless, Event-driven systems, OAuth 2.0 flows, Fernet encryption, async pipelines, idempotent retries

WORK EXPERIENCE

Backend Developer

Kavion.ai (N-Labs AI Pvt Ltd)

- Launched 7+ production **backend APIs** using Django and FastAPI with PostgreSQL, spanning fintech, edtech, HR-tech, and B2B SaaS industries.
- Managed 3–4 third-party integrations per project; defined API contracts, engineered async pipelines, and implemented **retries + idempotency** for robust processing.
- Deployed SAP PO integration for a major entertainment firm, automating purchase-order entry via API workflows and validation, saving 4 hours/week.
- Architected a config-driven **workflow engine** for a B2B DMS, allowing clients to define document stages without code changes for maximum extensibility.
- Led development of payment, user, and WhatsApp **Microservices** for a **Serverless** job portal on AWS Lambda, coordinating cross-team releases.

Technologies Used: Django, FastAPI, PostgreSQL, MongoDB, Redis, Celery, WebSockets, Django Channels, Node.js, AWS Lambda, SAP API, OpenAI, Claude, AWS SES, pgvector, AI Embeddings, Razorpay, Gumlet, PhonePe, WhatsApp Business API, MySQL, MSSQL

FEATURED PROJECT — SOLO

Invoice — Multi-tenant AI Invoice Extraction SaaS

- Built a **multi-tenant** AI invoice SaaS solo: Django/DRF backend, Next.js/TypeScript frontend, OAuth integrations, LLM pipeline, and production deployment.
- Designed an **LLM extraction pipeline** (PDF/image to structured data) using OpenAI + Mistral OCR, featuring confidence scoring and inline edits.
- Integrated **QuickBooks Online OAuth 2.0** and Bill push, enabling clients to sync extracted invoices directly into accounting workflows (US market).
- Configured **Xero OAuth 2.0** with Invoice push and auto-approve workflows, supporting UK, AU, and NZ accounting requirements.
- Secured tenant-isolated OAuth tokens using **Fernet-encrypted credential storage** keyed to the Django secret for enhanced security.
- Implemented **Stripe Checkout**, subscription webhooks (recovery, renewals), and a Customer Portal for PDF receipts (later shifted to direct-sale).
- Created an **admin panel** with plan tiers, sample-invoice management, branding controls, and reporting (spend, vendors, multi-currency).
- Strengthened auth flows with **password reset** via emailed tokens, IP rate-limiting, and a trial flow with feature-based upgrade gating.

KEY PROJECTS (KAVION.AI)

- Nclario Insights — Real-Time Analytics Platform
- *Django · FastAPI · PostgreSQL · MongoDB · Redis · Celery · WebSockets · Django Channels*
- Engineered live data ingestion from 5 simultaneous sources (MySQL, MSSQL, PostgreSQL, MongoDB, SAP) into a unified dashboard.
- Designed WebSocket-based upload progress tracking via Django Channels for large CSV and Excel processing jobs.
- Optimized heavy data transformations using Celery and Redis, maintaining sub-second API response times under high load.
- Nxtract — Agentic AI Document Extraction with SAP Integration
- *AWS Lambda · SAP API · LLM (OpenAI / Claude) · AWS SES*
- Architected an end-to-end agentic extraction pipeline where LLMs parse unstructured invoices and POs for automated SAP entry.
- Reduced procurement processing time from hours to seconds by eliminating manual data-entry steps entirely.
- DMS — Dynamic Document Management with Semantic Search
- *FastAPI · PostgreSQL · pgvector · AI Embeddings · AWS SES*
- Created a configurable workflow engine where client organizations define document stages with zero code changes.
- Implemented AI embedding pipelines for semantic search, allowing natural language queries instead of folder browsing.
- Developed role-based access control and audit trails to meet compliance requirements for construction-sector clients.
- Dhyeya — E-Learning Platform
- *Node.js · PostgreSQL · MongoDB · Redis · Razorpay · Gumlet*
- Provided DRM-protected video streaming via Gumlet to prevent unauthorized downloads and protect creator content.
- Deployed end-to-end student onboarding featuring Razorpay integration, SMS OTP, and AI-powered video transcription.
- Produced instructor analytics with Excel and CSV exports covering student progress and engagement metrics.
- Upadhi — Microservices Job Portal
- *Node.js · PostgreSQL · MongoDB · AWS Lambda · WhatsApp Business API*
- Orchestrated 3 decoupled microservices (payments, user management, WhatsApp) independently deployed on AWS Lambda.
- Configured WhatsApp Business API for real-time recruiter-to-candidate messaging within the platform.
- Connected AI Lambda functions to a job-recommendation engine to personalize feeds based on candidate behavior.
- Cleariz — Informal-Sector Credit Scoring
- *Django · PostgreSQL · PhonePe · AWS SES*
- Developed the backend for a credit-scoring platform targeting users underserved by traditional banking systems.
- Handled PhonePe payment gateway and AWS SES integrations for a full payment and verification flow.