

Dattatraya Walunj

Django Developer | Python Backend Engineer

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Professional Summary

Senior **Django Developer / Python Backend Engineer** with **5+ years of experience** designing and developing **enterprise-grade, multi-tenant SaaS applications**. Strong expertise in **Django, Django REST Framework (DRF), Python, PostgreSQL**, and **metadata-driven architectures**. Proven experience in **Document Management Systems (DMS), Contract Management, Dynamic Invoice Generation, Workflow Automation, and Project Management platforms**. Delivered scalable backend systems used by **30+ tenants**, processing **50k+ documents**, and achieving **~50% reduction in document creation time** through automation, templates, and optimized workflows.

Education

M.Tech (Industrial Mathematics with Computer Applications)

Department of Mathematics, University of Pune | **2013**

Core Skills

- **Programming & Backend:** Python, Django, Django REST Framework (DRF), REST APIs
 - **Architecture & Design:** Multi-Tenant SaaS, django-tenants (schema-based), Metadata-Driven Systems, RBAC
 - **Databases:** PostgreSQL, MySQL, SQLite, MVC/MVT Architecture, ORM Optimization
 - **Frontend (Working Knowledge):** HTML, CSS, Bootstrap, JavaScript, Ajax
 - **Async & Workflow:** Celery, Redis, Django-Q, Background Jobs, Scheduled Tasks
 - **Authentication & Security:** JWT (SimpleJWT), Role-Based Access Control, Azure AD, DocuSign, Google Vision API, Email (SMTP)
 - **DevOps & Tools (Basic):** Git, GitHub, Linux, Gunicorn, Multi-Tenant Deployment
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Professional Experience

Senior Django Developer

Virtualwebs Servers Pvt. Ltd | October 2020 – Present

- **Led backend development** of a **large-scale, multi-tenant Document Management System (DMS)** serving multiple enterprise clients using **django-tenants (PostgreSQL schema-based multi-tenancy)**.
 - **Architected and implemented shared and tenant-specific Django applications**, including **custom middleware, routing logic, and PostgreSQL schema-based database isolation**.
 - **Implemented Role-Based Access Control (RBAC)** using **Django Groups and permissions** to secure documents, templates, metadata, and workflows.
 - **Designed and developed secure RESTful APIs** using **Django REST Framework (DRF)** with **JWT authentication (SimpleJWT)** and role-based authorization.
 - **Built asynchronous processing and notification systems** using **Celery, Django-Q, Redis, and django-celery-beat** for emails, scheduled jobs, and background tasks.
 - **Implemented state-driven approval workflows** using **django-river** to manage document lifecycle states, approvals, and status transitions.
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Key Projects

Enterprise Platform – Secure Document Management System, Contract Management, Project Management & Dynamic Invoice Generation (Multi-Tenant SaaS)

Tech Stack: Django, Python, DRF, django-tenants, PostgreSQL, Celery, Redis, DocuSign, OpenPyXL, python-docx, CKEditor

- Built and scaled a **multi-tenant enterprise SaaS platform** used by **30+ tenants**, managing **50k+ documents** with high availability and strict tenant isolation.
 - Designed a **Secure Digital Vault** with complete document audit trails (upload, view, download, edit, email, signature), ensuring compliance and protection of high-value documents.
 - Implemented **intelligent document mapping and metadata auto-extraction**, enabling fast uploads, instant search ability, and seamless onboarding of **100% legacy documents from day one**.
 - Developed **user-defined, reusable templates** for documents and contracts, enabling error-free creation and preventing cross-customer data leakage.
 - Built **document & contract intelligence** to search and report on clauses, terms, and metadata across hundreds of contracts in minutes instead of days.
 - Integrated **project management** with tasks, priorities, progress tracking, attachments, signatures, and role-based visibility in a single unified system.
 - Built a **metadata-driven invoice creation system** generating **Excel (.xlsx) and DOCX invoices** from dynamic templates.
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