SHIV RATAN CHAURASIA

Python Backend Developer | AI & Automation Engineer | 3.5 Years

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Professional Summary

Python backend developer with 3.5+ years of production experience shipping AI-integrated platforms, async media pipelines, and scalable REST APIs. Built AI avatar generation, real-time AI QR engines, and automated video processing systems using Django, Celery, Redis, OpenCV, and FFmpeg. Delivered a 30% production page-load improvement and concurrent upload systems with zero main-thread blocking. Comfortable owning full delivery from API design and OAuth security to Linux and AWS deployment.

Technical Skills

Languages: Python 3.x, PHP, JavaScript ES6+
Frameworks: Django, Django REST Framework, Laravel, CodeIgniter
AI & Media: AI model integration, OpenCV, FFmpeg, image and video processing
Async: Celery, Redis, WebSockets, async task pipelines
APIs & Auth: REST API, OAuth 2.0, JWT, WhatsApp Business API, Google Calendar API
Databases: PostgreSQL, MySQL
Cloud & Ops: AWS S3, Nginx, Gunicorn, Supervisor, Linux server management
Payments: Razorpay, PhonePe
Tools: Git, GitHub, Microservices, RBAC, Multi-tenancy

Work Experience

Python / Backend Developer | VMS Techs, Noida

Aug 2022 – Present (3+ yrs)

Django, DRF, Celery, Redis, OpenCV, FFmpeg, PostgreSQL, AWS S3, Nginx

- Built AI avatar generation platform (Django + OAuth 2.0 + Razorpay); Redis caching reduced production page load time by 30%.
- Engineered Qrtli, a real-time AI QR styling engine using a Python microservice bridged with Laravel, delivering AI-generated QR codes at scale with PhonePe integration.
- Developed server-side FFmpeg and OpenCV pipelines for automated video transcoding, dynamic image manipulation, and media processing at production scale.
- Designed async media upload system (Django + Celery + Redis) handling concurrent large-file uploads with zero main-thread blocking under peak load.
- Integrated WhatsApp Business API and Google Calendar to fully automate appointment booking, replacing manual scheduling workflows.
- Managed Linux production stack (Nginx, Gunicorn, Supervisor, AWS S3) with automated deployment scripts and structured log monitoring.

Key Projects

Dojiwa — AI Avatar Platform *Django, OpenCV, Redis, OAuth 2.0, Razorpay*

- AI-powered avatar generation with social login, subscription billing, and Redis caching — 30% faster page loads in production.

Qrtli — Real-Time AI QR Engine *Python Microservice, Laravel, MySQL, PhonePe, WebSockets*

- Python microservice delivers AI-styled QR codes in real time via a Laravel bridge with WhatsApp notifications and PhonePe payments.

SnapCut — Async Media Pipeline *Django, Celery, Redis, PostgreSQL, FFmpeg, OpenCV*

- High-throughput async video and image processing with Celery task queues — zero blocking under concurrent heavy-file workloads.

Appointment Automation Workflow *Django, WhatsApp Business API, Google Calendar API, Celery*

- Automated booking via WhatsApp triggers, Google Meet scheduling, and Celery background workers — replaced manual processes entirely.

Education

B.Tech — Electronics & Communication Engineering *2018 – 2022*

IIMT College of Engineering, Greater Noida