

YASH VAISHNAV

Backend Developer

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SUMMARY

I am an experienced backend developer with a strong foundation in Django, Django REST Framework (DRF), and Flask, and hands-on experience with MySQL, PostgreSQL, and MongoDB. Driven by a passion for system design, I focus on building clean, efficient APIs and robust backend systems, with practical experience deploying applications on AWS and managing backend infrastructure. Improved API response time by 40% and handled 10K req/sec in production.

SKILLS AND TOOLS

Python Django DRF Flask
HTML CSS Bootstrap Git
JavaScript AWS Cloud MySQL
MongoDB
PostgreSQL OAuth 2.0 OIDC
SAML-SSO
JWT Redis Celery Docker
Apache Airflow Postman Sockets
Vim/Nano
Nginx & gunicorn Linux Tensorflow
OCR
System Design Operating System

HACKATHONS

- Health hackathon organized by John Hopkins University
- 12 hour hackathon organized by Codemos Institute Indore

CERTIFICATIONS

- HTML, CSS, & JavaScript Course by John Hopkins University

BLOGS

- Authorization or Authentication using OAuth-2.0 Part-1
- Message Framing in TCP Sockets

EDUCATION

- B.Tech (Specialization in Cloud Computing and Automation)
- VIT Bhopal University
- CGPA: 7.62

PERSONAL INFORMATION

- Languages : English and Hindi
- Hobbies : Reading and Sports

EXPERIENCE

Backend Developer Intern

Techritzy Pvt Ltd

Indore, Madhya Pradesh, India

Aug 2024 - Jan 2025

- Developed web applications API in **DRF** and secured it using **JWT**, **OAuth 2.0** and **Role-Based Authorization**. Served 25 endpoints with 0 unauthorized access incidents.
- Used **Celery Beat** to schedule reminders for each user according to the schedule from the Gemini API, placing **2,000 daily tasks** into **Redis**, acting as a message broker, which queued and forwarded them to Celery workers. The workers processed these tasks and sent emails through **Gmail's SMTP service**, configured within the application, with automatic retries to resend any failed notifications.
- Used **Apache Airflow** to manage and prioritize tasks for sending email notifications, ensuring critical emails were delivered first (reduced latency from 12 min to <2 min), automatically retrying failed attempts, and monitoring every task through the **Airflow UI** where I could visualize task status, review execution logs, track retry counts, and receive failure alerts, giving complete visibility and control over all scheduled actions.
- Deployed an application on **AWS** on Ubuntu EC2 instance to run the application, linking it to a **MySQL** database on **RDS** placed in a Private Subnet, and setting up **AWS VPC** and **Security Group** to control network access, with **AWS ALB/ELB** to distribute traffic across servers. Achieved 99.9% uptime and 60% faster deployment cycles.
- Configured **Nginx** as the web server to manage all incoming HTTP/HTTPS requests, handle client connections efficiently, serve static assets such as CSS, JavaScript, and images directly, and forward dynamic requests to **Gunicorn** working as the application server, which processes Python application logic, executes Django routes, communicates with the database, and returns responses through Nginx and handled 10K req/sec.
- Integrated **HTTPS** encryption on the domain by installing an **SSL Certificate** from **Let's Encrypt** and scripted automatic renewal every three months, ensuring secure data transmission and contributing to the overall SDLC lifecycle by enforcing security best practices during deployment and operations.

PROJECTS

PhotosPurge

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- Developed a web application to address 15 GB Google Account Storage challenges, enabling users to delete category wise emails and migrate all Google Photos from one Google Account to another using **Django** and **MySQL**. Processed 50 GB+ data for 200+ beta users.
- Developed Gmail app for category wise email deletion and recovery. Implemented **OAuth 2.0** with Django Allauth to access user emails and offloaded tasks to **Redis Queues** processed by multiple **Celery Workers** asynchronously. Added custom middleware to refresh expired tokens automatically and **SMTP** notifications for task success or failure.
- Created Photos app for migrating Google photos. Fetched source account photos via Django Allauth authentication and implemented manual authentication for the destination account using credentials.json to obtain write access. Batched 100 photos per task into **Redis Queues** processed asynchronously by **Celery Workers**, with Custom Middleware to refresh tokens and **SMTP** for sending notifications.

Unthinkable Deployment

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- Developed a robust **Bash Automation Script** that streamlines the entire backend setup process from installing system packages and project dependencies to configuring **Nginx**, **Gunicorn**, and **SSL certificates**. The script automatically **sets environment variables**, **links services**, **configures firewall rules**, and **manages SSL installation and renewal via Let's Encrypt**. This reduced manual setup time to just 5 minutes, ensuring secure, consistent, and repeatable deployments across all servers.

Authentication API

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- Developed a secure web API using **Django REST Framework(DRF)** for authentication and authorization implementing **JWT** authentication with SimpleJWT library, issuing access and refresh tokens and automatically refreshing them for active users to maintain uninterrupted sessions.
- Integrated **Multi Factor Authentication(MFA)** with Google Authenticator and Authy, added **Forgot Password** functionality, and Block IP feature after three failed login attempts to protect against attacks.
- Managed session and access control, enforcing Single Device Login by logging out from all other devices, and implemented **Role Based Authorization** with **Django Permissions** to define access levels for users and admins.

ParkEasy

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- Built a parking management system using **Flask** and **MySQL** with **Session Based Authentication** and **OAuth 2.0** Authorization Code Grant flow with Google Sign-In for authentication without manually entering credentials.
- Added **Role Based Authorization** to manage access between users and admin. Configured **SMTP** to send payment receipts after each booking.
- Added APScheduler to run a background job every 5 minutes that clears expired bookings from the database managing slot availability and reclaimed expired slots. **Dockerized** application with deployment on Heroku.