YASH VAISHNAV

Backend Developer

Indore, Madhya Pradesh, India

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PROFILE

I'm an experienced backend developer with a strong foundation in Django, Django REST Framework, and Flask. I'm proficient in MySQL, and have hands-on experience with PostgreSQL and MongoDB. I specialize in building APIs, working with databases, and developing robust backend systems. I enjoy exploring the architecture behind different tools and frameworks. System design is something I genuinely love reading about and applying—especially when building practical, well-structured applications that may not be massive but are clean, efficient, and thoughtfully designed.

EDUCATION

B.Tech (Specialization in Cloud Computing and Automation)

VIT Bhopal University

CGPA 7.56 / 10

📅 10/2022 - Present   📍 Bhopal, Madhya Pradesh, India

PROJECTS

ParkEasy   Source Code
- Developed an application performing CRUD operations for a parking system
- Implemented **session-based authentication** and **OAuth2.0** and **Role-based authorization**
- Configured **SMTP** to send payment receipts via email

SmartEats   Source Code
- Developed an application in **Flask** to check whether a food product is safe for diabetic person by scanning ingredients from camera using **PIL**
- Used Gemini API with **Tensorflow** and **Transformers** for processing and PIL for image processing
- Implemented **OpenID Connect** with **OAuth 2.0** for **Authentication** and **Authorization**

ChatRoom   Source Code
- Developed a real-time chatroom app with **django** and **MySQL** using **Django channels** for **WebSocket** support
- Used **Redis as message broker** to manage communication
- Enabled instant messaging in chat rooms using **ASGI** with **Daphne**

PhotosPurge   Source Code
- Developed an application using **Django** to migrate Google photos from a google account to another
- Implemented **OAuth 2.0 Authorization** with Google to access user's Gmail and Google photos
- Implemented **Celery Task Queue** to process deletion and migration logic asynchronously with **Redis as Message Broker**
- Configured **SMTP** to send emails after task finishes

StoreWatch   Source Code
- Built an API using **Django REST Framework** and **MongoDB** to manage inventory issues, support tickets, and product insights.
- Integrated a custom **ML module** to classify customer reviews as positive or negative, enabling real-time sentiment tracking.
- Allowed store admins to raise tickets. If tickets exceed 20, notification is sent to the Regional Manager using **SMTP**.
- Tracked average product ratings, sentiment trends, critical resolution time, and overall issue frequency via structured API responses.

BLOGS

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

SKILLS AND TOOLS

Python	Django	Django Rest Framework
Flask	Linux	Git Bash OAuth
JWT	AWS Celery	PostgreSQL
Nginx	Bootstrap HTML	CSS
Airflow	Docker GitHub	JavaScript
MongoDB	Redis Postman	SAML-SSO
OIDC	TensorFlow Web-Sockets	Vim

EXPERIENCE

Backend Developer Intern   08/2024 - 01/2025
Techritzy Pvt Ltd

- Developed monolithic applications in **Flask** and **django** with database **MySQL** and created the authentication system with **OAuth 2.0** and **OpenID Connect**
- Developed REST APIs in **DRF** implementing **JWT Authentication, OAuth2.0, SAML-SSO and Role Based Authorization**
- Implemented **Celery** for asynchronous task management of long running tasks and configured **SMTP** to send email notifications after task finishes
- Implemented **Apache Airflow** for workflow management of tasks with **Celery Executor** for asynchronous processing
- Deployed a site on **AWS** by configuring database and application on different servers
- Configured **gunicorn** app server and **nginx** web server and wrote **systemd service files** for automating startup process for gunicorn and celery workers with implemention of **HTTPS** with **SSL certificates**

KEY ACHIEVEMENTS

John Hopkins University(Online)
Participated in a 36-hour hackathon by John Hopkins University

Codemos Institute Indore(Offline)
Participated in a 12-hour hackathon organized by Codemos Institute Indore

CERTIFICATIONS

HTML, CSS, & JavaScript Course by John Hopkins University