Karan Bhatia Python Backend Developer

✉ karanb1902@gmail.com 📞 9306884400 📍 Delhi, NCR

 https://github.com/karanbhatia-svg in https://www.linkedin.com/in/karan-bhatia-ai/

Backend Python Developer with **2+ years** of experience building scalable SaaS solutions. Skilled in Django, Flask, and React.js, with experience working with large-scale data. Experienced in API development and integrating machine learning models with Django. Looking to work with a forward-thinking company where I can use my skills to create innovative and high-quality software.

Work Experience

01/2025 – Present

Junior Engineer, *PhysioAI*

- Developed and maintained **50+ REST API endpoints** in Django REST Framework for both internal and client-facing applications, improving response times by **up to 40%** through caching and query optimization.
- Performed database operations on **MySQL and MS SQL**, including CRUD operations, bulk inserts, migrations, indexing, and data encryption, while resolving API data load bottlenecks and implementing async tasks for faster processing.
- Collaborated with frontend developers via GitHub-based workflows to ensure smooth API–UI integration, which helped speed up feature delivery and reduce integration bugs.
- Integrated **image generation** and **chat generation** ML models into the Django backend for real-time prediction of body posture and health risk detection, using Celery tasks, cron jobs, and REST APIs to enable seamless data flow with the React frontend.

05/2023 – 12/2024

Backend Developer Trainee, *PhysioAI*

- Learned backend development from the ground up, gaining hands-on experience with Django REST, databases, and API design.
- Assisted in building and testing core features under senior developer guidance.
- Gradually took on more responsibility, including helping new teammates with onboarding and codebase familiarization.

Education

2019 – 2022

B.Sc Hons in Computer Data Science,
Guru Jambheshwar University of Science and Technology, Hisar

2018 – 2019

12th in PCM, *CBSE Board*

Skills

Programming Languages:
Python, SQL, HTML5, CSS3, JavaScript, Bash

Libraries
NumPy, Pandas, Scikit-learn, TensorFlow, Celery, LangChain, Pdfkit, PyPDF2, Openpyxl

Websockets
Django Channels

Frameworks:
 Django REST Framework, FastAPI, React, Node.js

Databases:
PostgreSQL, MySQL, MongoDB, Django ORM

Tools & Platforms:
Git, JIRA, VS Code, Linux

Certificates

Python Full-Stack
4Months of training from DUCAT Gurgaon

Introduction to Data Analysis:
Simplilearn

Projects

Clinic Management System

Built in a team using **Django** and **MySQL** to streamline administrative tasks for clinics and sports academies. Features include role-based access, appointment scheduling, bulk data entry, and secure encryption. **Deployed in hundreds of clinics** and government sports academies, replacing outdated systems and improving operational efficiency.

ML Model Integration with Django

Integrated **image recognition** and **posture detection** models into a Django backend to identify and prevent posture-related health issues. Used REST APIs and Celery tasks for real-time analysis. **Deployed in production** and actively used by leading hospitals to support early diagnosis and patient care improvement.

Data Analysis and Reporting

Developed APIs to manage medical, financial, and scheduling data with flexible sorting options (yearly, monthly, individual). Automated Excel report generation and built PDF templates for detailed medical reports using **pdfkit**, **PyPDF2**, and **openpyxl**, streamlining data sharing and reducing manual work.

API Integration Projects

Designed, developed, and integrated APIs to seamlessly utilize data from diverse sources, enhancing application functionality and accessibility. Implemented robust error handling, optimized performance for faster data processing, and ensured secure, scalable API interactions to improve system reliability and user experience.

GCP Looker Dashboard Development

Designed and deployed **Google Cloud Looker** dashboards for real-time data monitoring and visualization. Integrated **BigQuery** datasets, built custom filters and KPIs, and delivered interactive reports that helped stakeholders make faster, data-driven decisions.

Real-Time Chat App with Django Channels

Built a real-time chat application using **Django Channels** and WebSockets, supporting one-on-one and group messaging with message history and user authentication. Used **Redis** for connection management and message routing, ensuring responsiveness with multiple concurrent users.

CI/CD Pipeline Enhancement and Logging System Integration

Maintained and improved the **CI/CD pipeline on AWS**, streamlining deployments and increasing system reliability. Integrated **Sentry APM** for performance monitoring and real-time error tracking. Implemented a structured logging system to speed up debugging and issue resolution in both development and production.

Personal Projects

Django E-commerce Project 🔗
Full-featured store with product management, cart, and checkout using Django, PostgreSQL, and Stripe API for payments.

Blog Application, *(React frontend with Django REST API backend)* 🔗

Food Calorie Calculator, *(Backend with FastAPI, frontend graphs using ChartJS)* 🔗