

HEMANT MANGLANI

Senior Python Backend Engineer

Ahmedabad, India | +91 82002 91456 | hemant.manglani01@gmail.com

[Linkedin](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Senior Python Backend Engineer with 6+ years of experience designing and delivering scalable SaaS platforms, cloud-native APIs, and real-time systems. Deep expertise in Python, Django, FastAPI, and AWS, with a proven record of owning backend architecture from design through deployment. Skilled at integrating AI/LLM-powered features — RAG, semantic search, and chat automation — into production applications. Recognized for building reliable, high-performance systems and leading development teams.

TECHNICAL SKILLS

Languages & Frameworks: Python, Django, Django REST Framework, FastAPI, Flask, REST APIs, WebSockets, Reactjs/Next.js

Databases: PostgreSQL, MongoDB, DynamoDB, SQLite, SQLAlchemy, ORM Optimization

Cloud & DevOps: AWS (EC2, Lambda, RDS, API Gateway, S3, ECR, CloudWatch), Docker, CI/CD, Nginx, Production Monitoring

AI / LLM Integration: LLM APIs, LangChain, LangGraph, RAG, Semantic Search, Chatbot Automation

Other: WebRTC (Audio/Video), Git, Selenium, Elasticsearch

PROFESSIONAL EXPERIENCE

Lead Backend Engineer / Product Engineer

Aug 2022 – July 2026

Pyonix Technology

Ahmedabad, India

- Architected and delivered multiple production-grade SaaS platforms using Django, FastAPI, and AWS, owning backend design, development, and deployment end-to-end.
- Built a scalable e-commerce backend supporting secure payments, order-lifecycle management, notifications, and admin workflows.
- Designed a multi-tenant SaaS platform for agency discovery, search, and lead management.
- Developed real-time chat and audio-calling features using WebSockets and WebRTC.
- Integrated LLM-powered customer-support automation (FAQ handling, contextual responses, semantic search) into live production systems.
- Implemented role-based access control (RBAC), API performance optimization, and production monitoring to improve system reliability.

Backend Developer

Jan 2021 – Aug 2022

Self-Employed

Ahmedabad, India

- Delivered backend solutions for multiple client applications using Django and FastAPI.
- Designed REST APIs, authentication flows, and real-time features with Python WebSockets.
- Implemented NLP-based chat analysis and voice-assistant integrations.
- Collaborated directly with clients to gather requirements and ship production-ready solutions.

Software Engineer

Jul 2019 – Dec 2021

Softvan Pvt. Ltd.

Ahmedabad, India

- Developed Machine Learning, Deep Learning, Computer Vision, and NLP solutions across text, image, and speech data.
- Built backend services using AWS Lambda and FastAPI with automated deployment pipelines.
- Implemented Elasticsearch capabilities including fuzzy search, n-gram, and round-robin querying.
- Performed feature engineering, data preprocessing, and cleaning for production models.
- Led a team of four and served as the primary point of contact for daily client communication.

Software Engineer Intern

Dec 2017 – May 2018

Softvan Pvt. Ltd.

Ahmedabad, India

- Built a body-angle detection project including data analysis and visualization using Flask.

PROJECTS

E-Commerce Platform – D2C Fashion Retail

Django, Django REST Framework, Next.js, PostgreSQL, AWS, Docker

- Built and shipped a live direct-to-consumer fashion storefront end-to-end: Django REST backend paired with a server-rendered Next.js frontend for fast, SEO-friendly catalogue pages.
- Modelled products, variants, and inventory with faceted search and filtering; optimized ORM queries and caching to keep catalogue and listing APIs responsive under load.
- Implemented secure payment-gateway integration, cart-to-checkout flow, and full order lifecycle (payment, fulfilment, shipping status, returns) with transactional email/SMS notifications.
- Delivered an admin dashboard with RBAC for catalogue, pricing, coupons, inventory, and order workflows.
- Deployed on AWS (EC2, S3 media storage, RDS PostgreSQL) using Docker, Nginx, and CI/CD, with CloudWatch monitoring.

QR-Based Billing & POS System for Restaurants

Django, WebSockets, PostgreSQL, Next.js, AWS, Docker

- Built a multi-tenant QR-based ordering and billing/POS platform for restaurants: table QR → digital menu → order → kitchen ticket → bill, with no app install for diners.
- Developed a real-time order pipeline over WebSockets pushing live updates to kitchen and waiter dashboards, with order status tracking for customers.
- Implemented the billing engine covering GST/taxes, discounts, split and merged bills, and invoice/receipt generation, plus daily sales and item-level reporting.
- Designed per-restaurant tenancy with RBAC (owner, manager, staff), menu and pricing management, and table/QR provisioning.
- Containerized and deployed on AWS with Nginx and CI/CD for zero-touch releases.

Real-Time Person Detection & Re-Identification

Python, Computer Vision, ML, Deep Learning, Flask

- Detected persons from RTSP camera streams and rendered results on a live UI.
- Built known/unknown person detection with labelling, using deep learning for re-identification on return visits.
- Deployed an end-to-end pipeline exposed through a REST API.

Survey Analysis Platform

Python, AWS, NLP, ML, FastAPI, MongoDB

- Built a quantitative and qualitative survey-analysis system for text, numeric, image, and video data.
- Developed highlight and showreel generation using semantic search and filtering.
- Implemented a full DevOps pipeline with Docker, Nginx, and EC2.

Jobs Classification

Python, Web Scraping, Elasticsearch

- Built optimized multithreaded / multiprocessing scrapers to collect job descriptions from multiple sites.
- Applied NLP to categorize job descriptions by location, skills, and experience.
- Implemented Elasticsearch search over cleaned, pre-processed data.

EDUCATION

Bachelor of Engineering, Information Technology

Apollo Institute of Engineering & Technology

Jun 2015 – May 2019

Ahmedabad, India

- CGPA: 8.64 / 10
- Final-year project: athlete intelligence system comparing user posture against professional athletes.

CERTIFICATIONS

- Machine Learning Specialization — Coursera / Stanford University (Andrew Ng), Aug 2020
- Deep Learning Specialization — Coursera / deeplearning.ai (Andrew Ng), Apr 2021