

HARSH GURNANI

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SUMMARY

Results-driven Python Backend Engineer with hands-on experience designing and deploying 6+ scalable microservices, RESTful APIs, and AI-driven automation systems. Successfully optimized PostgreSQL databases and integrated Redis cache layers to reduce peak-traffic API response times by 44%. Proficient in orchestrating LangChain-based AI agents, building vector search RAG systems, and configuring automated CI/CD pipelines.

TECHNICAL SKILLS

Languages: Python, SQL, Bash

Frameworks: FastAPI, Django, Django REST Framework, Next.js

Generative AI: LangChain, LangGraph, OpenAI API, Google Gemini API, RAG, Prompt Engineering, AI Agents, Vector Search

Databases: PostgreSQL, Redis

Cloud and DevOps: Docker, Kubernetes, AWS (EC2, S3), GitHub Actions, CI/CD Pipelines

Monitoring and Testing: Prometheus, ELK Stack, PyTest

Architecture: RESTful API Design, Microservices, System Design, WebSocket, Asynchronous Processing

Security: OAuth2, JWT Authentication

WORK EXPERIENCE

Backend and AI Developer Intern

January 2025 – Present

Pyonix Technologies

- Engineered 6+ microservices with Django REST Framework and FastAPI, backed by PostgreSQL, serving production applications under concurrent user load.
- Created AI-driven workflow automation pipelines through LangChain and LangGraph, eliminating manual database operations and streamlining internal processes.
- Optimized PostgreSQL queries and introduced Redis caching layers, cutting average API response time by 44% (from 900ms to 500ms) during peak traffic.
- Architected asynchronous real-time notification systems via WebSocket and Firebase Cloud Messaging (FCM), enabling low-latency push alerts for end users.
- Configured CI/CD deployment pipelines with GitHub Actions and Docker, improving release consistency across staging and production environments.
- Expanded automated test coverage through PyTest across 20+ critical endpoints, stabilizing releases and minimizing recurring production defects.

PROJECTS

Ipsy Style — E-Commerce with Generative AI

ipsystyle.com

Lead Architect | Django, Next.js, PostgreSQL, AWS S3, Google Gemini API

- Designed a modular Django backend for a full-featured e-commerce application serving 100+ product SKUs, user authentication, order tracking, and search functionality.
- Integrated generative AI-powered virtual try-on and 360-degree product visualization capabilities via Google Gemini Veo APIs, boosting user engagement and purchase confidence.
- Deployed on AWS S3 for media storage and embedded SEO-optimized structured data (JSON-LD) to improve organic search visibility.

Dapperz — Premium E-Commerce Application

dapperz.in

Developer | Django, PostgreSQL, REST API, AWS

- Built the server-side layer for a premium e-commerce application offering stainless steel accessories and clothing, managing 50+ product listings, inventory tracking, and checkout flows.

- Crafted RESTful API endpoints for catalog operations, cart processing, and secure payment integration, enabling seamless frontend consumption.

Scan2Serve — QR-Based Restaurant Ordering System

scan2serve.in

Core Engineer | Python, Django, PostgreSQL, WebSocket, Redis

- Developed a QR-driven restaurant ordering system handling 10+ simultaneous dining sessions with live menu updates and order tracking.
- Constructed WebSocket-based kitchen notification channels and asynchronous printing queues for efficient real-time order fulfillment.
- Structured the API layer to support dynamic menu configuration, session handling, and complete order lifecycle operations.

Paper Maker App — Educational Mobile Application

Solo Developer | Django, PostgreSQL, REST API

- Architected a scalable server-side infrastructure for an educational mobile application with Django and PostgreSQL.
- Built content management APIs, user progress tracking, and data persistence layers, advancing the app into the Google Play Store testing phase.

EDUCATION

Bachelor of Engineering in Information Technology

Graduation: July 2025

Sardar Patel College of Engineering, Anand, India

CGPA: 8.5 / 10.0

CERTIFICATIONS

- Complete Machine Learning Bootcamp (Krish Naik, Udemy) — Covering machine learning, deep learning, NLP, and model deployment.
- TCS National Qualifier Test (NQT) — Cleared and shortlisted for TCS Prime Interview, 2026.