



Het Sanjaybhai Patel

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Summary

Backend developer specializing in Python, FastAPI and PostgreSQL, building secure, well-tested REST APIs with JWT/OAuth and CI on GitHub Actions; delivered Dockerized services and demo-ready products at hackathons and for ecommerce showcases. Targeting backend/intern roles to ship quickly and measure impact.

Projects

• SIH Backend

SIH Backend – FastAPI, PostgreSQL, Unicorn, SQLAlchemy, Pytest. Designed modular REST APIs with role-based auth (JWT), Alembic migrations, and typed Pydantic models; implemented pagination, filtering, and rate limiting. Optimized queries and indexing to reach ~120 ms median latency and p95 ~220 ms on key endpoints; added 95% test coverage with CI on GitHub Actions. Dockerized local dev stack and wrote Makefile scripts for setup, lint, and test workflows; added OpenAPI docs and Postman collection.

Here is the GitHub link for SIH Backend - <https://github.com/Het161/SIH-Backend>

• Nasa Space Apps Challenge

ProbablePlan (FastAPI, xarray, pandas, NumPy, NASA POWER, MERRA-2)

Designed and implemented FastAPI microservices to compute day-of-year, coordinate-specific probabilities for “very hot/cold/wet/windy/uncomfortable” conditions using NASA POWER and MERRA-2 datasets. Built a spatiotemporal data pipeline with xarray/pandas/NumPy that subsets POWER Daily API parameters (e.g., T2M_MIN, PRECTOTCORR) by lat/lon and aggregates multi-decadal histories into threshold-exceedance statistics. Normalized outputs with units and metadata, returning JSON summaries and CSV extracts to support reproducibility and downstream analysis for user-defined thresholds. Integrated MERRA-2 reanalysis fields to complement POWER point climatology, improving robustness for historical variability and extremes. Collaborated on API contracts powering the traveler journey (pin drop → date range → risk thresholds → dashboard), enabling clear decision text and risk response mapping in the app.

Here is the GitHub link for this Project - <https://github.com/Het161/Space-APP>

Skills

- Languages - Python, SQL, JavaScript/TypeScript, Java
- Frameworks - FastAPI, Next.js, Spring Boot (basics)
- Databases - PostgreSQL (schemas, indexing, migrations)
- Concepts - REST, JWT/OAuth, caching, pagination, SQL optimization
- Tools - Docker, Git/GitHub, Postman, Pytest, GitHub Actions
- Artificial Intelligence
- Team Work, Communication, Leadership

Experience

• OM Marketing

1/9/2024 -

Owner

Operate a retail/industrial weighing scale business; led sales, vendor relations, and customer service across categories. Built a lightweight inventory + invoicing workflow using spreadsheets/scripts; reduced reconciliation time 60% and returns due to errors 90%. Introduced basic CRM tracking and WhatsApp outreach; increased repeat orders and shortened response SLAs.

• Startup Weekend PDEU IIC

29 August 2025 - 1 September 2025

Backend Developer

Designed and developed a social media platform MVP using React/TypeScript/Tailwind and Node.js; showcased strong full-stack proficiency, collaboration, and rapid delivery, earning a Top 13 finish (26th percentile) among 50 teams.

Developed and implemented digital marketing strategies to promote products and services through affiliate networks, resulting in a steady stream of passive income. Utilized analytical tools to track campaign performance, optimize conversion rates, and maximize revenue. Designed and managed promotional content across multiple platforms including social media, blogs, and email campaigns. Collaborated with global brands and partners to drive sales and expand market reach.

Gained hands-on experience with SEO, data analysis, and digital marketing automation tools—skills highly relevant to BTech studies in computer science and related fields.

Education

- **Maharishi Sandipani School** 2022
Class 10th
70%
- **Maharshi Sandipani School** 2024
Class 12th Science A Group
68%
- IELTS 2024
6.5 Bands
- **Gandhinagar University** Graduation Year 2028
BTech Computer Engineering
8.36 SGPA