

# Sampurna Niyogi

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LeetCode: [leetcode.com/SampurnaNiyogi](https://leetcode.com/SampurnaNiyogi)

## OBJECTIVE

Python developer passionate about building scalable backend systems using Django, Flask & REST APIs, with hands-on experience in ML integrations, cloud deployment, debugging, and collaborative agile development.

## EDUCATION

- Heritage Institute Of Technology, Affiliated to MAKAUT** Kolkata, India  
*B.Tech in Computer Science and Engineering; CGPA: 9.84* *Aug 2024 – Present*

## TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java
- **Backend:** Django, Flask, FastAPI, Django REST Framework
- **Cloud & Deployment:** Firebase, Render, Docker (Basics)
- **AI/ML:** PyTorch, Transformers, Model Deployment
- **Databases:** MongoDB, MySQL, SQLite
- **Frontend:** HTML, CSS, JavaScript, React.js, Streamlit, PyQt5
- **Tools:** Git, GitHub, Linux, VS Code, LaTeX, Postman
- **Soft Skills:** Team Coordination, Adaptability, Analytical Thinking, Time Management

## CERTIFICATIONS

- Postman API Fundamentals Student Expert
- Introduction to Internet of Things, NPTEL

## PROJECTS

- **Chemical Plant Equipment Monitor** *(Full-Stack — Django REST — Cloud Data Analytics)*  
Developed and maintained Django REST APIs for secure telemetry analytics with a React web dashboard and PyQt5 desktop client.  
**Technologies:** Python, Django REST Framework, Pandas, React.js, PyQt5, Matplotlib
- **AI-Based Self-Checkout System** *(Queue-Free Shopping — Biometric Login — Smart Cart)*  
A smart-cart solution enabling queue-free shopping using biometric login and seamless cart-to-backend communication through Flask and Firestore.  
**Technologies:** Python, Flask, Firebase (Firestore), Streamlit
- **ShieldNET: AI-Powered WAF** *(Deep Learning — Real-time SQLi Detection)*  
Deployed a Transformer-based ML API using FastAPI for real-time detection and blocking of SQL injection attacks.  
**Technologies:** Python, PyTorch, Transformers, FastAPI
- **Smart Recipe Manager** *(Full-Stack — REST APIs — Responsive UI)*  
Developed authentication and CRUD endpoints using FastAPI backend and optimized MongoDB schema for high-performance retrieval.  
**Technologies:** Python, FastAPI, MongoDB, HTML/CSS, Jinja2

## MEMBERSHIPS

- Google Developer Group on Campus, Heritage Institute of Technology
- ACM Student Chapter, HITK