

Sampurna Niyogi

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SUMMARY

Software Engineering student focused on backend development and RESTful APIs, with experience building services using Spring Boot, FastAPI, and Django. Hands-on exposure to HTTP-based services, database integration, and cloud deployment.

EDUCATION

Heritage Institute Of Technology, Affiliated to MAKAUT

- B.Tech in Computer Science and Engineering; CGPA: 9.84

Kolkata, India

Aug 2024 – Present

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++

Backend & APIs: Spring Boot, Django REST Framework, FastAPI, Flask

Databases: MongoDB, MySQL, SQLite, Firebase Firestore

Cloud & Tools: Git, GitHub, Docker (basic), Postman, Linux

Frontend: HTML, CSS, JavaScript, React, Streamlit

CERTIFICATIONS

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

PROJECTS

Chemical Plant Equipment Monitor

Django REST, React, PyQt5

- Developed RESTful APIs to collect and process industrial telemetry data (temperature, pressure, flow rate).
- Designed a three-tier architecture supporting both web and desktop clients.
- Implemented data visualization and analytics dashboards for monitoring equipment behavior.

AI-Based Self-Checkout System

Flask, Firebase, Streamlit

- Built backend services for a queue-free retail checkout system with cart-level user authentication.
- Integrated Firestore for real-time cart updates and backend-driven checkout workflows.
- Focused on backend–frontend separation and low-latency request handling.

Smart Recipe Manager

FastAPI, MongoDB

- Developed authentication-enabled CRUD APIs for managing structured recipe data.
- Designed and optimized MongoDB schemas for efficient data retrieval.
- Implemented RESTful endpoints following clean API design principles.

Developer Learning Platform (In Progress)

Spring Boot, REST APIs

- Designing backend APIs for problem management, user handling, and code submission workflows.
- Implementing layered architecture with focus on extensibility and clean API contracts.

OPEN SOURCE EXPERIENCE

Incoming Open Source Contributor—Social Winter of Code (SWoC)

Jan 2026 – Present

- Accepted as an incoming contributor for Social Winter of Code, starting January 2026.
- Will contribute to open-source projects using Git/GitHub in a mentor-guided environment.

MEMBERSHIPS

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