Sampurna Niyogi

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EDUCATION

- **Heritage Institute Of Technology, Affiliated to MAKAUT** — Kolkata, India
  B.Tech in Computer Science and Engineering; CGPA: 9.72 — *Aug 2024 – Present*
- **Bhavan's Gangabux Kanoria Vidyamandir** — Kolkata, India
  AISSCE – Class XII – 95% — *2024*

SKILLS SUMMARY

- **Core Languages**: Java, C, C++, Python, Node.js
- **Backend & AI/ML**: FastAPI, Flask, Express.js, PyTorch, Transformers
- **Databases & ORMs**: MongoDB, MySQL, SQLite, Mongoose, Firebase
- **Frontend Technologies**: JavaScript, HTML, CSS, Vue/Vuetify, Streamlit
- **Developer Tools & Platforms**: GitHub, Postman, LaTeX, Hyperledger Fabric
- **Soft Skills**: Team Coordination, Adaptability, Analytical Thinking, Time Management

CERTIFICATIONS

- Postman API Fundamentals Student Expert
- HackerRank Skill Certifications in CSS, SQL, and Problem Solving

PROJECTS

- **AI-Based Self-Checkout System**
  (Queue-Free Shopping, Biometric Login, Smart Cart)
  - An AI-based self-checkout solution enabling queue-free shopping through biometric login and smart cart interaction.
  Technologies: Python, Streamlit, Firebase (Firestore), Flask
- **ShieldNET: AI-Powered WAF**
  (Deep Learning, SQLi Detection, Real-time)
  - A deep-learning-based Web Application Firewall (WAF) using a Transformer model to detect and block SQL injection attacks in real-time.
  Technologies: Python, PyTorch, Transformers, FastAPI
- **Smart Recipe: Intelligent Recipe Manager**
  (Recipe Discovery, Personalized Management, Responsive UI)
  - An intelligent recipe platform that helps users discover, create, and manage personalized recipes using an intuitive, responsive frontend.
  Technologies: Python, FastAPI, MongoDB, Jinja2, HTML/CSS
- **BlockSim: Blockchain Simulator**
  (Mini Blockchain, Proof-of-Work, Chain Integrity)
  - A simple blockchain simulator built from scratch to understand mining, transactions, and chain integrity.
  Technologies: Node.js, Express.js

MEMBERSHIPS

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