MANASH SANGAM

Kathmandu, Nepal | +9779803369741, +917735228948 | manashsangam04@gmail.com | https://www.manash-sangam.com.np | https://www.linkedin.com/in/manash-sangam/ | https://github.com/Manash-Sangam

Software Engineer with expertise in developing scalable solutions using Python, Go, and cloud technologies. Skilled in full-stack development, REST APIs, DevOps practices, and data lineage, with a passion for Linux and open-source systems. Known for delivering impactful solutions and a commitment to continuous learning.

SKILLS

Programming Languages: Python, Go, Java, JavaScript, C++
Backend & APIs: Flask, Node.js, REST API, Microservices
Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Firestore)
Cloud & DevOps: AWS, GCP, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)
Linux & System Administration: Ubuntu, Debian, Bash scripting
Other: Graph visualization, Data lineage, Agile

EXPERIENCE

Software Engineer | HSBC Technology India (Jul 2024 – Present)

- Developed **Python-based data lineage solutions** to enhance **data tracking and documentation** across bank applications.
- Created **graph visualizations** for tracking data flow across applications.
- Worked with **Solidatus tool & Python** for scalable solutions.

Freelance Developer (2023-2024)

- Developed **MERN full-stack applications** with **Docker & Kubernetes** deployment on AWS/GCP.
- Built **REST APIs using Flask & Python**, enabling **scalable automation**.
- Set up **CI/CD pipelines** using GitHub Actions & Jenkins.
- Developed a **web scraper API** for a client.

EDUCATION

- **Kalinga Institute of Industrial Technology,** Bhubaneswar, Odisha, India (2020-2024)
  B.Tech in Computer Science and Engineering | GPA: 9.52/10 | **Ranked 12th Overall**
- **Little Angel's College** (2018-2020)
  10+2 (Physics, Math, Computer Science, English) | CGPA: 3.44/4.0

PROJECTS

- **Scalable Web Scraper API** – Built using Python & Flask, enabling automated data extraction
- **MERN E-commerce Platform (Organic Karnali)** – Developed a scalable web application handling thousands of users; deployed with CI/CD on AWS/GCP
- **Smart Farming IoT System** – Integrated C++ & Arduino for real-time monitoring and automation

PUBLICATIONS & PATENTS

- **Cache Eviction Policies in Multi-core Processor – ICMLIP 2023**
- **Multi-core Processor Architecture Patent – (Intellectual Property India Patent No. 202331015916, Publish Date:24/03/2023)**