Ishar Maharjan

Software Engineer (System, Backend & AI)
Kathmandu, Nepal
isharmaharjan@gmail.com

 github.com/IsharMn
 linkedin.com/in/ishar-maharjan/
 isharmaharjan.com.np

EXPERIENCE

- **Docsumo** — *Singapore (Remote)*

  Software Engineer (Python) — March 2023 - Present

  – Led the architecture and development of two critical systems: a fully automated **billing and credit deduction system** with **Stripe**, which reduced manual overhead for accounts teams, and an in-house **AI powered** data extraction system for **bank statements** and its use cases.

  – Made key architectural decisions while designing and building scalable backend systems and **REST APIs** using Python frameworks. Engineered complex workflows with **Temporal** to orchestrate an **event-driven architecture** for new product features.

  – Proactively optimized system performance and stability by implementing strategic **caching mechanisms**, optimizing **database queries**, and conducting **memory profiling** to prevent **OOM errors** and container crashes. Additionally, enhanced search capabilities using **MongoDB Atlas Search**.

- **Upwork** — *Freelance*

  Python/Automation Developer — January 2022 - October 2022

  – Developed and deployed various automation solutions for clients, including **web crawlers and scrapers** to automatically collect and update content and tools for **email automation** based on message content.

  – Engineered and deployed **bots for platforms like Discord, Twitter, and Telegram**, managing their hosting on **AWS EC2** instances.

  – Built an **automated video generation tool** with custom configurations (TTS, subtitles, and animations) to create educational and storytelling videos, providing clients with a scalable content creation solution.

TECHNICAL SKILLS

Languages: Python, Golang, Bash, JavaScript
Frameworks: Flask, FastAPI, Celery, Temporal, Selenium
Database/Data Applications: Redis, MongoDB, PostgreSQL, Elasticsearch
Cloud/Deployment: Docker, Git, CI/CD, Kubernetes, GCP, AWS S3, Linux

EDUCATION

- **Bachelor of Computer Engineering** — *2023*

  Kathmandu University, Dhulikhel — CGPA: 3.79

  Course highlights: *Data Structures and Algorithms, OOP, Software Analysis and Design, Communication and Networking, Database Management System, Software Engineering, Machine Learning*

PERSONAL PROJECTS

- **Gurukul Live Chat**

  Technologies: Python, FastAPI, Redis, WebSockets

  – a real-time chat platform utilizing WebSockets and a Redis Pub/Sub system for communication among clients across various subject-specific rooms

- **Portfolio Analysis Platform**

  Technologies: Python, FastAPI, Twilio SMS, MongoDB)

  – a personal stock portfolio manager, with live market analysis and alert system on set price spike/drop

EXTRA-CURRICULAR ACTIVITIES

- **Python Community Coordinator**

  KUCC, Kathmandu University, Dhulikhel — 2021-2023

  Predominately responsible for coordinating and organizing workshop sessions and talk show events