

Anjil Niraula

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Professional Summary

Data/Operations Engineer with hands-on experience building **production-grade backend systems, real-time data pipelines, and blockchain applications**. Proficient in **Go, Kafka, PostgreSQL, Redis**, and container orchestration. Demonstrated ability to architect scalable microservices, optimize system operations, and implement ETL processes with foundational Linux system administration skills.

Technical Skills

Languages: Go, Python, SQL, Bash/Shell Scripting

Backend & APIs: Echo, gRPC

Databases & Caching: PostgreSQL, TimescaleDB, Redis, MongoDB

Message Queues & Streaming: Apache Kafka (IBM/Sarama), NATS, Bento

Systems & DevOps: Linux/Unix Administration, Docker, Docker Compose, Git, CI/CD, Process Management

Professional Experience

Data Engineering Associate | Ankamala – Remote

Oct 2025 – Dec 2025

- Architected a **custom web scraping framework** in Python similar to Scrapy, leveraging advanced OOP patterns including **MRO (Method Resolution Order)**, mixins, and abstract base classes for extensible spider design
- Deployed and maintained scraping infrastructure on **Linux environments**, implementing process monitoring, resource allocation strategies, and automated restart mechanisms for high availability
- Built modular pipeline architecture with pluggable middlewares, item processors, and multiple storage backends including **S3** and **PostgreSQL** for flexible data persistence

Junior Go Engineer | Kavaya – Remote

Oct 2024 – Sep 2025

- Engineered a real-time **Token Launch Detector** in Go using **Kafka consumers** to process cryptocurrency tweets, implementing algorithmic pre-filtering and LLM-based classification with **Llama 3.1 8B** for identifying new token launches
- Built a **DEX Indexer** in Go to monitor and index swap events from Base chain, implementing efficient blockchain event listeners and data collection mechanisms for decentralized exchange transaction tracking
- Developed **ETL pipelines** to process and transfer indexed blockchain data into **TimescaleDB**, optimizing time-series queries, implementing automated data validation scripts, and managing service deployments across development and production environments
- Managed production deployments on Linux servers, utilizing systemd for service management, configuring log rotation, and implementing monitoring solutions for system health and performance metrics

Associate QA Engineer | Cloudtch Service – Kathmandu, Nepal

Oct 2023 – Oct 2024

- Automated testing for **CRM systems** using **Cypress**, and performed comprehensive **API testing** with Postman and JMeter, improving test coverage and validating backend services
- Configured and maintained test environments on Linux infrastructure, managing dependencies, environment variables, and automated test execution through shell scripts

Projects

SpotiStats – Music Analytics Platform | Go, PostgreSQL, Redis, Echo

- Built a full-stack music analytics backend processing **50,000+ Spotify tracks** with PostgreSQL storage and Redis caching for hot data
- Containerized application services with Docker, configured nginx for reverse proxying, and implemented automated backup strategies for data persistence

Meme Sentinel – Cryptocurrency Tweet Analyzer | Go, Kafka, LLM Integration

- Developed a production-grade Go application for real-time cryptocurrency tweet analysis, consuming messages from Kafka and applying multi-stage filtering
- Integrated LLM with OpenAI-compatible endpoints for structured outputs, classifying tweets as launches, endorsements, or non-financial content with chain detection (ETH/SOL)

Education

Bachelor of Computer Science and Information Technology | Kathmandu Int'l College / Tribhuvan University

Kathmandu, Nepal

2024

Achievements

Code to Solve Hackathon – 2nd Runner Up

- Developed a **sign language detection system** using TensorFlow and Keras, implementing computer vision techniques for real-time gesture recognition to facilitate communication for the hearing impaired