

SUBODH UPRETI

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ABOUT

Senior backend engineer with **8 years** of experience scaling systems from monolithic Django apps to high-throughput data pipelines. Currently architecting fault-tolerant, event-driven systems for financial data processing using Temporal and Python. I work primarily in Python and Go, with a particular interest in critical backend challenges: data consistency and resilient workflow orchestration. I enjoy leading technical initiatives and helping junior developers grow into strong engineers.

TECHNICAL SKILLS

Languages	Python, Go, JavaScript, SQL, Bash
Frameworks	Django/DRF, gRPC, FastAPI, Strawberry GraphQL, PyTest, Vue.js
Cloud & Infra	AWS (EKS, Kinesis, Lambda, Athena), Docker, Kubernetes, Temporal, Celery, RabbitMQ
Data & Architecture	PostgreSQL, Redis, Supabase, Event-Driven Architecture (EDA), CDC, Event Outbox, LLMs

EXPERIENCE

Senior Backend Engineer | *Grepsr* *May 2023 - Present*

- Architecting the backend for a B2B SaaS management platform that optimizes company software spend by identifying idle subscriptions and monitoring workspace usage. Built an event-driven system using FastAPI (for webhook), Strawberry GraphQL (for frontend), Supabase, and Temporal to orchestrate LLM-powered invoice parsing and reliable integrations with Plaid, Google Workspace, and Microsoft 365.
- Architected the core data orchestration engine for the **Pline** browser extension using Temporal, Prefect, and RabbitMQ. Engineered end-to-end workflows for data ingestion, automated scheduling, and data export. Built third-party integrations for AWS S3 and Google Sheets ensuring reliable, automated data syncing.
- Moved the core **Grepsr Platform's** data processing to Temporal workflows, ensuring automatic retry and recovery from transient failures.
- Built streaming data pipelines with Flink and Kinesis that process massive volumes of data in real-time without bottlenecks during sudden traffic spikes.
- Replaced manual reports with automated reporting services, empowering enterprise clients to pull their own custom reports instantly.

Backend Engineer | *Level9Tech* *Sep 2019 - May 2023*

- Developed the complete backend infrastructure for the **Super Krishak**, mobile app for Nepali farmers, including database architecture, APIs and push notifications. Integrated the Plantix API to enable plant disease detection, and utilized Redis and huey for asynchronous jobs processing.
- Built the backend for **MeroSikha**, a Learning Management System (LMS) where teachers track student progress in real-time, featuring an engine that automatically suggests content based on student performance.
- Connected **Online Travel Nepal's** booking platform to Sabre GDS and multiple payment providers, handling the complex edge cases of real-time flight availability and failed transactions.
- Mentored junior developers and interns introducing code reviews and CI/CD practices.

Python/Django Developer | *Magdotnet* *June 2018 - Aug 2019*

- Developed **RhinoPass**, a B2B SaaS for the food industry handling digital ordering, payments, menus, and delivery using Django, PostgreSQL, PostGIS, and Docker.

- Created **Photo Agent**, a full-stack e-commerce platform where photographers upload event photos and clients purchase them through secure, private galleries.
- Automated email marketing campaigns for multiple businesses, reducing manual list management and scheduling for clients.

Python/Django Developer | *Aayulogic*

Sep 2016 - Nov 2017

- Contributed to complete rewrite of **merojob.com** (Nepal's leading job site) from PHP to Django, successfully removing years of technical debt and creating a more maintainable codebase.
- Contributed to core HR management modules for **RealHRSoft**, enhancing payroll and attendance capabilities for enterprise clients.

EDUCATION

Bachelor's in Computer Science and Information Technology (BScCSIT) | *St. Xavier's College, Kathmandu, Nepal*

Graduated: 2015