
Backend engineer with over 2 years of experience in Python, Django, FastAPI and AWS DevOps. Built and maintained multiple scalable projects in a Scrum Agile Environment. Perfectionist, Teamplayer and a Problem Solver.

EXPERIENCE

SR. BACKEND DEVELOPER

Zite | Kathmandu, Nepal

09/2023 – 04/2025

- Integrated **Debezium** with **PostgreSQL** and **Kafka** to stream row-level changes from **50+ tables** for real-time sync across multiple databases (**MongoDB**, **Neo4j**, **Elasticsearch**).
- Optimized and refactored database queries (both ORM and raw SQL), achieving up to **80x improvement** in response times.
- Implemented high-performance **bulk data upload and export** capabilities, supporting files with over **500,000+ rows**.
- Integrated **Neo4j graph database** to manage **1200+ active users** and enforce **object-level permissions** with fine-grained control.
- Developed and executed raw **PostGIS** queries with **geometry functions** to enable advanced map-based data visualizations.
- Built and deployed a **FastAPI**-based microservice using **WebSockets** and **Redis** to stream real-time progress of **Celery** tasks.

JR. & INTERN BACKEND DEVELOPER

NAXA | Kathmandu, Nepal

02/2023 – 08/2023

- Streamlined the deployment process using **Docker**, **Git-based CI/CD pipelines**, and **AWS ECS (Elastic Container Service)**.
- Utilized **Amazon S3** to store high-resolution images, implementing lifecycle policies for automated periodic cleanup.
- Developed custom **PostgreSQL functions** tailored to meet specific client requirements and business logic.
- Integrated **Stripe** for secure payment processing, supporting multi-tiered subscriptions.
- Implemented **Apple Single Sign-On (SSO)** for seamless authentication on both mobile and web platforms.

EDUCATION

BACHELORS IN COMPUTER ENGINEERING

TU, IOE, Pashchimanchal Campus – 05/2022

Pokhara, Nepal

HIGH SCHOOL DEGREE

Aroma College of Applied Science and Management – 04/2017

Chitwan, Nepal

PROJECTS

GEONADIR

- Collaborative GIS for environmental professionals to quantify ecosystem change

ZITE

- Mobile app for data collection and task management sync with a web-based platform for analysis and reporting to turn field data into actionable insights.

SKILLS

- Django | FastAPI
 - Docker | ECS | EC2 | S3
 - Git | Nginx
 - Postgres | Postgis | Neo4j
 - Redis | Kafka | Celery
 - Shell Scripting
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