

# AAYAM MAHARJAN

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## CAREER OBJECTIVE

Software Developer with backend development experience, specializing in scalable API design using Python, Django, and DRF. Proficient in PostgreSQL, SQL, and Pandas, with expertise in database design, query optimization, and data processing. Passionate about writing clean, maintainable code and solving complex backend challenges. With eagerness in Data Analytics.

## EXPERIENCE

### Calcgen Nepal

July 2024 - Present

#### Python Developer

- Developed and maintained scalable RESTful APIs using Django and DRF, ensuring efficient data processing.
- Designed and optimized PostgreSQL databases, reducing query execution time by 30% through indexing and query optimization.
- Implemented asynchronous task processing using Celery & Redis, improving system performance.
- Integrated third-party APIs and microservices to enhance application functionality.
- Developed unit and integration tests using PyTest, increasing test coverage by 85%.
- Led code reviews and mentored junior developers on Python best practices.
- Handled and supervised project (EIA) while guiding junior throughout the project.
- Handled 3rd party APIs ensuring smooth integration with the project.

### Level 9 tech

Oct 2023 - Jan 2024

#### Django Developer (Intern)

Technology used: Django, RestFramework, Postgres SQL, Docker

- Developed a todo app.
- Creation and management of hotel-booking applications for optimal user experience.
- Integrated Database using docker.
- Created, implemented and tested APIs through swagger, Thunder client.

## EDUCATION

### BSC (Hons) Computing

#### Islington College

(London Metropolitan University)  
Grade A (First Class Honours)

Kamalpokhari, Kathmandu

2021 - 2024

### SLC

#### Prime College

(NEB)  
Grade - 3.17

Nayabazar, Kathmandu

2019 - 2021

### SEE

#### Holy Vision Highr Secondary School

(NEB)  
Grade - 3.56

Tahachal, Kathmandu

2009 - 2019

## PROJECT EXPERIENCE

### EIA (Environment Impact Assessment) Portal

#### Technology used:

Python, Django Rest Framework, PostgreSQL, JWT, Docker, Twilio, Sparrow, Pandas

EIA portal is an platform governed by Nepal Ministry (Ministry of Forest and Environment) which used Django Rest Framework for backend, PostgreSQL for database and React for frontend. The platform is developed to make the tedious process of forwarding, correcting and approving documents for development of huge infrastructure to be manageable and fast. The platform allows users to create and provide the documents by filling up a form and allows them to send and get feedbacks on the pdf files itself within the web app through various Nepal ministries. The administrators are allowed to provide feedback, pass the files within the members of ministry for correction, filter multiple documents and approve or revise the document provided through the users.

#### Responsibilities:

- Created RESTful APIs using Django Rest Framework.
- Utilized PostgreSQL for robust database management, ensuring scalability and efficiency.
- Collaborated with the team in daily scrum meetings.
- Supervise juniors with necessary feedbacks for smooth collaboration and task completion.
- Go to meeting with the ministries for feedback and training.
- Integrated celery for user notifications.
- Integrated Twilio and sparrow for otp verification through SMS.

### laticrete CRM

#### Technology used:

Python, Django Rest Framework, PostgreSQL, JWT, Pandas

The Laticrete CRM Portal is a platform designed to enhance customer engagement and streamline communication for Laticrete, a global leader in construction materials. It utilizes Django Rest Framework for the backend, PostgreSQL for database management, and React for the frontend, providing a seamless user experience. The platform allows companies, their branches, and workers to manage customer profiles, track interactions, request support, and handle company-specific tasks. Administrators can efficiently manage data, monitor service requests, and improve overall customer satisfaction, ensuring smooth operations across all levels of the organization.

#### Responsibilities:

- Created RESTful APIs using Django Rest Framework.
- Utilized PostgreSQL for database management, ensuring scalability.
- Took part in meetings for better collaboration.

### WWF Depository

#### Technology used:

Python, Django, PostgreSQL, JWT, Docker, Pandas

The WWF Nepal Depository is a platform where WWF employees input and manage environmental data they've gathered. It serves as the organization's primary database for data storage, analysis, and visualization. Using Django templates for forms and Django Graphs and Pandas for data analysis, the system helps employees organize, analyze, and visualize data to support decision-making. It is exclusively used by WWF staff to set and manage the data collected during environmental projects.

#### Responsibilities:

- Developed front-end interface using Django templating.
- Built reporting modules for project progress tracking and analytics.
- Collaborated with the team on implementing features and resolving bugs.
- Optimized database queries in PostgreSQL for performance and scalability.
- Integrated AJAX for dynamic content updates and improved user experience.

## Web Application - Nepalicious

Github link: [Link](#)

Technology used: Python, Django, Tailwind CSS, JS, AJAX

Created an web application for exploring Nepalese recipes, exploring nearby restaurants, purchasing ingredients, and connecting with fellow food enthusiasts.

## Sentimental Analysis

Github link: [Link](#)

Technology used: Python, Pandas, Matplotlib, ML models

Sentimental Analysis on Twitter dataset.

ML models used: BernoulliNB, Linear SVC, Logistic Regression.

Visualization of analyzed data.

Finding of different testing result.

## Sales Analysis

Github link: [Link](#)

Technology used: Python, Pandas, Matplotlib

Sales analysis for ABC company to find sales of the company in different cities

Sales analysis to find the highest-sold product

Visualization of analyzed data

## SKILLS

### Technical Skills

- **Programming Language:**  
HTML5, CSS, JS, SQL, Python, Java
- **Framework:**  
Django, DRF, Tailwind, Pandas, Matplotlib
- **Applications/Tools:**  
Figma, Balsamiq, Canva, Docker, Swagger
- **Version Control Tools:**  
Github, Git, Gitlab
- **Software Development:**  
System Analysis, Scrum Development

### Soft Skills

- Communication and Collaboration
- Time management
- Quick Learner
- Self-motivated
- Adaptive
- Problem Solving

## CERTIFICATES

AWS Academy Graduate - AWS Academy Cloud Foundations [Link](#)

AWS Academy Graduate - AWS Academy Machine Learning Foundations [Link](#)

Learning Data Analytics: 1 Foundations [Link](#)

Django Developer Internship: level 9 Technology

## REFERENCES

Mr. Umesh Nepal

Associate Lecturer, Islington College

Email: [umesh.nepal@islingtoncollege.edu.np](mailto:umesh.nepal@islingtoncollege.edu.np)

## ACHIEVEMENT

AAA Scholarship holder - 1st year (Islington College)

Final Year Project - Nominated as one of the best

Final Year Project.