# Subodh Poudel

**Development**


9749794715

poudelsubodh321@gmail.com

Kathmandu-Baneshwor , Katmandu


## SUMMARY


I'm a aspiring developer with enthusiastic personality. I like to solve the problems and work on the solutions with team effort l. I have solid foundation in programming languages like C, C++, javascript, python and experience working with frame works like React.js , Django , Flask , Typescript, Node.js, Express.js . I'm passionate about writing clean efficient and optimized code and implementing best practices from given language.


## ACHIEVEMENTS

## SKILLS

- Python - Expert
- Django - Experienced
- React.js - Experienced
- Node.js - Experienced
- Express.js - Experienced
- Flask - Skillful
- HTML/CSS/JAVASCRIPT - Experienced
- DBMS - Skillful
- Api Handling - Beginner
- C/C++ - Experienced
- Java - Experienced

## LANGUAGE

## EDUCATION

**Bachelor in computer applications**

Mangalmay institute of management and technology / Greater Noida , Knowledge Park 2 / June, 2022 - July, 2025

I studied Bachelors of computer applications from Mangalmay institute of management and technology.

## PROJECTS

Nepali ●●●●●

English ●●●●○

Hindi ●●●●○

**Advertisement Plateform**

I designed and developed the backend of a fully functional advertisement platform using the Django framework, handling everything from project architecture to deployment. The platform allows users to create, manage, and interact with advertisements, including features such as authentication, user roles, ad approval workflows, and proof submission mechanisms.

 Key Responsibilities & Achievements:

Project Architecture & Setup:

Created a modular Django project with multiple apps (e.g., login, create, landingpage) to organize features logically.

Implemented user registration and login with token-based authentication using Django REST Framework (DRF).

Designed models such as Advertisement, AdminAdvertisement, and ProofSubmission, with custom fields for per-job types, approval status, and submission tracking.

API Development:

Built RESTful APIs using DRF for creating, reading, updating, and deleting advertisements.

Developed endpoints for admin approval flow, advertisement activation timing, and filtering/sorting ads on the frontend.

Implemented custom actions and permissions to handle user roles (e.g., admin, regular user).

Media Handling & Proof Submission:

Enabled users to upload images as proof of work via multipart/form-data and handled it securely with Django's media settings.

Created logic to allow submissions to be made only for active and valid ads.

Referral System & Notifications:

Developed a referral system to track and reward user invitations, ensuring count increments only upon valid registration.

Built a notification system with real-time feedback and a "View All Notifications" feature integrated with frontend components.

Project Management:

Used Git for version control and GitHub for repository hosting and collaboration.

Followed agile principles by organizing work into phases: planning, development, testing, and deployment.

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Deployment:

Used Gunicorn and Nginx for serving the Django app in production.

Configured SQLite as the production database and ensured secure handling of environment variables and static/media files.

Security & Performance:

Implemented best practices like input validation, secure authentication, and rate limiting.

Optimized queries and used Django's pagination and caching features to improve performance.

https://github.com/Asim-XXIV/Advertisementhub_backend.git

**CollegeAI CollegeFinder – AI-Powered College Recommendation Platform**

I co-developed CollegeFinder, a smart platform designed to help students find the best colleges tailored to their academic profile, preferences, and career goals. The project aims to simplify the complex college selection process by using intelligent filters, predictive analytics, and personalized recommendations — all within a unified platform.

 Backend Development & System Design:

Project Architecture:

Built the backend using Django and Django REST Framework, with a clean, modular structure to manage student data, college information, recommendation results, and user preferences.

Designed relational models for StudentProfile, College, ApplicationHistory, SearchPreferences, and RecommendationResults.

API Development:

Developed RESTful APIs for college search, filtering, bookmarking, and applying — integrated with frontend using a React-based interface.

Included advanced search features using query parameters such as location, fees, entrance exams, cutoffs, and stream preferences.

Admin Dashboard & Management:

Created an admin interface for managing college listings, reviewing user activity, and controlling recommendation algorithms.

Enabled role-based access controls to secure the system and streamline workflows.

 AI & Advanced Algorithm Integration:

AI-Driven Recommendation Engine (In Progress):

Currently integrating machine learning models that analyze student profiles and historical trends to provide personalized college suggestions.

Using NLP and clustering algorithms to match student goals with college descriptions, reviews, and placement statistics.

Training models on large datasets including past admission records, college rankings, and student feedback.

Smart Filters & Ranking Algorithms:

Developing a weighted scoring system that considers a combination of academic scores, location preferences, extracurriculars, and affordability to rank colleges.

Exploring collaborative filtering and rule-based logic to improve the quality and relevance of results.

Chatbot & Guidance System (Upcoming):

Planning to integrate a conversational AI assistant to guide students through the search process, answer queries, and explain college features in real-time.

 Project Management & Deployment:

Team Collaboration:

Worked in a team with clearly divided roles (backend, frontend, AI/research). I managed the backend and participated in high-level planning and algorithm design.

Used GitHub for version control and Notion/Trello for task management and documentation.

Deployment:

Deployed the platform using Render/Heroku (or specify), configured PostgreSQL for production, and handled static/media files using Amazon S3.

Secured the backend with environment variables, HTTPS enforcement, and Django security middleware.

Impact: CollegeFinder aims to bridge the gap between students and

higher education opportunities using intelligent automation and

personalized guidance — all on a single platform. The project continues to evolve with ongoing development in AI integration and user experience optimization.

https://github.com/CollegeFinderSystem/backendcollegefinder.git