

# RAMESH RAWAT

## PYTHON DEVELOPER

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## EDUCATION

### BACHELOR IN COMPUTER APPLICATION

Pascal National College (TU)  
2020 - 2024

## SKILLS

### Languages

Python  
JavaScript  
SQL (PostgreSQL, MySQL)

### Libraries & Frameworks

Django (Python Framework)  
FastAPI (Python Framework)  
React.JS (JavaScript Library)  
Next.js (JavaScript Library)  
Bootstrap (CSS Framework)  
Tailwind CSS (CSS Framework)  
Pydantic  
SQLAlchemy  
Redis(PUB/SUB)  
Celery

### Tools

Git  
GitHub  
VS code  
Docker

## LANGUAGES

English, Nepali, Hindi

## EXPERIENCE

TREELEAF TECHNOLOGIES PVT. LTD-PYTHON DEVELOPER(INTERN)

Shankhamul-11, Lalitpur

jan 2025 - july-2025

- API Development:** Developed a FastAPI-based backend for efficient document management and user authentication.
- Database Management:** Designed and implemented SQLAlchemy models for structured database interactions, ensuring optimized queries and data integrity.
- Data Validation:** Utilized Pydantic for data validation and serialization, enforcing clean API request/response handling.
- Database Administration:** Managed and monitored the PostgreSQL database using pgAdmin, ensuring reliability and performance.
- Security & Access Control:** Implemented role-based access control (RBAC) to restrict user permissions for secure document management.

## SELECTED PROJECTS

### Business-management-system-rbac

- Developed a Django REST API with a multi-role (Admin, User, Vendor, etc) **RBAC** system for secure, granular permissions.
- Engineered an asynchronous, event-driven notification system using **Celery, Redis, and Django Signals**.
- Implemented secure token-based authentication for all API endpoints using JWT.
- Generated interactive API documentation with Swagger (drf-yasg) for streamlined testing and integration.

### DOCMINT

- Developed a **FastAPI**-based backend for efficient document management and user authentication.
- Designed and implemented **SQLAlchemy** models for structured database interactions.
- Utilized **Pydantic** for data validation and serialization, ensuring clean API request/response handling.
- Integrated **Liquibase** for database version control and seamless schema migrations.
- Managed and monitored **PostgreSQL** database using pgAdmin, ensuring data consistency and integrity.
- Implemented role-based access control (RBAC) to restrict user permissions for secure document management.

### College Chatbot

- Built an NLP-powered chatbot using FastAPI to handle college-related queries.
- Applied tokenization, lemmatization, and similarity scoring for accurate responses.
- Used AIML/XML for structured Q&A and PostgreSQL for storing users, chats, and logs.
- Implemented role-based access for students and admins with dynamic learning from unmatched queries.