

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

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

djano-rbac-notification-api

- Developed a Django REST API with a multi-role (Admin, User, Vendor) 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.