

Rohan Pudasaini

Python Developer

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Results-driven Software Developer specializing in Python, FastAPI, and SQLAlchemy for building scalable backend solutions. Proficient in working with relational database like PostgreSQL, and experienced in containerizing applications using Docker. Skilled in version control with Git and familiar with AWS for cloud-based deployments. Demonstrated ability to collaborate within teams, lead knowledge-sharing initiatives, and contribute to both backend and frontend development. Passionate about problem-solving and continuously exploring new technologies to deliver innovative and high-quality solutions.

EXPERIENCE

Python Developer

Kathmandu

Vanilla Transtechnor

May, 2024 - Present

Designed and developed RESTful APIs using **Python**, **FastAPI**, and **SQLAlchemy**. Worked with relational database like **PostgreSQL** to build scalable backend solutions. Containerized applications using **Docker** for efficient deployment. Initiated and led Python knowledge transfer sessions within the team to enhance collaboration and skill development. Conducted on-call discussions with clients to gather accurate requirements and ensure the delivery of tailored solutions. Currently working on a machine learning project with classification model.

Python Intern

Kathmandu

Vanilla Transtechnor

Jan, 2024 - May, 2024

Worked closely with a senior developer to gain hands-on experience in building **RESTful** APIs using **FastAPI**, **PostgreSQL**, **SQLAlchemy**, and **Alembic**. I contributed to the development of a **Library Management System** and a **Device Management System**, implementing **Role-Based Access Control (RBAC)** and authorization mechanisms to ensure secure and scalable solutions. This experience strengthened my understanding of backend development, database management, and API design principles.

Freelance Python Developer

Remote

People Per Hour

May, 2022 - Present

Developed bespoke GUI and command-line applications using **tKinter** and **PySimpleGUI**. Automated web tasks such as bulk login/registration and data scraping using **Selenium**, **BS4**, and **Requests**. Performed advanced mail merges and template-based document editing using **docx2pdf**. Utilized **Tesseract** and **PyTesseract** for OCR tasks and implemented bulk messaging for Instagram users. Integrated APIs to fetch and analyze stock data for FTSE 250 companies based on user requirements. Extracted and plotted geographical coordinates from CSV data using **Folium** and **OpenStreetMap**, saving outputs as offline HTML. Assisted in managing and maintaining client networks, along with handling various day-to-day activities to meet client needs.

EDUCATION

Bachelors in Computer Science and information technology

Kathmandu

St-Lawrence College

May, 2019 - May, 2024

PROJECTS

Merchantrade Money

Contributed to API development by implementing RESTful endpoints, writing integration tests, and optimizing database queries for improved performance and scalability.

<https://play.google.com/store/apps/details?id=com.mtradeasia.mmp>

Machine Learning Project with Classification model

Developed a machine learning classification model for large-scale data, creating a generalized blueprint for model selection, feature engineering, and hyperparameter tuning to optimize performance. Integrated the model with a FastAPI backend to serve predictions via RESTful APIs, and built a simple frontend interface to display results, enabling end-to-end interaction with the deployed model.

Device Management System

Created a robust device management system API crafted using FastAPI for handling endpoints, SQLAlchemy as the ORM, and PostgreSQL for the backend database.

<https://github.com/Rohanpudasaini/DeviceManagementSystem>

Library management system, FastAPI

Created a simple library management system's api created using FastAPI for the endpoint, SQLAlchemy for ORM and PostgreSQL for the backend database.

https://github.com/Rohanpudasaini/library_management_system_fastAPI

Simple FastAPI app with RBAC

Created a simple FastAPI app with role based access control.

https://github.com/Rohanpudasaini/role_base_access_control_fastAPI

E-Commerce Website in Django

Created a simple django website with recommendation system for the final year project of 8th sem

https://github.com/Rohanpudasaini/fyp_django

ACHIEVEMENTS

45+ rooms completed in TryHackme

Completed over 45+ hands-on hacking rooms on TryHackMe, including **Mr. Robot**, **Blue**, and **OhSINT**, gaining real-world experience in penetration testing and OSINT techniques.

10+ badges in TryHackMe

Earned 10+ cybersecurity badges recognizing proficiency in **Metasploit**, **Linux**, **web exploitation**, **hash cracking**, and consistent learning streaks.

TRAINING/CERTIFICATIONS

CS50P	2025
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The Harvard

[link](#)

Machine Learning Specialisation	2025
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DeepLearning.AI

[link](#)

Unsupervised Learning, Recommenders, Reinforcement Learning	2025
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DeepLearning.AI

[link](#)

Advanced Learning Algorithms	2025
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DeepLearning.AI

[link](#)

Linear Algebra for Machine Learning and Data Science	2025
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DeepLearning.AI

[link](#)

Certification of Participation	2023
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ThreatCon

NDG Linux Unhatched (CISCO)	2021
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CISCO

Wordpress Basic

2020

CSIT Association of Nepal

Certification of Participation at National Arduino Campaign

2018

Youth's Tech

SKILLS

Python(FastAPI), Machine Learning, SQLAlchemy, PostgreSQL, Docker, Git / Github, Python GUI, Web and Workflow Automation, Basic knowlegde of Linux & Cyber Security, Networking Basics

LANGUAGE

Nepali, English

REFERENCES

Neha Pandey - *Team lead*

Vanilla Transtechnor

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