

PRABIN KHADKA

Backend Developer (Python / Django) | Full Stack Developer | REST API Engineer

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SUMMARY

Final-year B.Sc. CSIT student with 2+ years of industry experience building and deploying backend systems with Python and Django. Designed REST APIs, administered Linux servers, and containerised applications with Docker and Nginx across two professional roles. CCNA certified; familiar with relational database design (MySQL, PostgreSQL, SQLite) and asynchronous messaging (Apache Kafka, WebSockets).

TECHNICAL SKILLS

Languages	Python 3, JavaScript (ES6+), TypeScript, SQL, Bash, C, C++
Backend	Django, Django REST Framework (DRF), Node.js, Express.js, REST API design, JWT authentication, session-based auth, role-based access control (RBAC), WebSockets, Apache Kafka, Django Channels, Celery
Databases	MySQL, PostgreSQL, SQLite, Django ORM, database schema design, query optimisation, indexing
DevOps / Infra	Docker, Docker Compose, Nginx (reverse proxy, rate limiting, caching), Linux server administration (Ubuntu), Git, GitHub, SSH, server deployment, CI/CD basics
Frontend	React.js, Vite, TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Streamlit
ML / Data	PyTorch, LangChain, OpenAI Embeddings, RAG, NLP, Pandas, Selenium, web scraping
Networking	CCNA (routing, switching, subnetting, TCP/IP, OSI model)
Hardware	PCB-level diagnosis, BIOS replacement, BGA rework, schematic reading, hot-air soldering

WORK EXPERIENCE

Laptop & Hardware Technician

April 2025 – Present

EON Pvt. Ltd. · Kathmandu

- Replace BIOS chips and re-flash firmware on HP, Dell, Lenovo, Asus, and Acer laptops
- Diagnose PCB-level faults (shorted MOSFETs, failed power ICs, capacitors) with multimeter and oscilloscope
- Rework BGA chips and charging ICs using hot-air rework station; resolder DC jacks and USB ports
- Read schematic diagrams and board-view software to locate motherboard faults
- Repair screens, keyboards, RAM/SSD slots; recover liquid-damaged boards
- Record repairs and parts in a daily log; report diagnosis and estimated completion to customers

IT Support & Junior Web Developer

April 2024 – April 2025

Broadway Infosys Pvt. Ltd. · Kathmandu

- Developed and maintained Django web applications following MVT architecture with MySQL back-end
- Built REST API endpoints using Django REST Framework; tested with Postman
- Configured Nginx as a reverse proxy and assisted in Docker-based server setup
- Installed and managed software and operating systems on 30+ lab computers
- Handled Level-1/2 support tickets for hardware, networking, and Linux server problems

IT Technician

March 2023 – March 2024

Presidential Graduate School · Kathmandu

- Administered Ubuntu Linux servers: applied security patches, managed backups, and monitored uptime
- Deployed and maintained web applications on production servers
- Resolved networking and hardware issues for faculty and students

PROJECTS

FixItAll — Multivendor E-Commerce Platform (Full Stack) [\[github\]](#)

[Python](#) · [Django](#) · [Django REST Framework](#) · [React.js](#) · [TypeScript](#) · [Vite](#) · [JWT](#) · [PostgreSQL](#) · [RBAC](#)

- Built a multivendor e-commerce backend with three Django apps: **account** (JWT auth, RBAC for Admin and

Customer roles), **eadmin** (inventory management, order processing, user activity tracking), **efrontend** (public product/category/search REST API, read-optimised)

- Wrote DRF serializers and REST API endpoints for all three apps
- Connected a React/TypeScript (Vite) frontend via a typed service layer (**accountService**, **adminService**, **storeService**)
- Implemented JWT token flow: login, refresh, protected route middleware

Real-Time Chat Application

[Django](#) · [Django Channels](#) · [Apache Kafka](#) · [WebSockets](#) · [Docker](#) · [Nginx](#)

- Built a WebSocket server using Django Channels; used Apache Kafka as the message broker
- Containerised the application with Docker Compose; Nginx handles reverse proxy and SSL termination

RAG-Based Document Q&A System

[Python](#) · [LangChain](#) · [OpenAI Embeddings](#) · [FAISS](#) · [NLP](#)

- Built a Retrieval-Augmented Generation (RAG) pipeline: document ingestion, vector embedding with OpenAI, FAISS similarity search, context-aware answer generation via LangChain

Dockerized Django + Nginx Multi-Project Deployment

[Docker](#) · [Docker Compose](#) · [Nginx](#) · [Django](#) · [Linux](#)

- Ran multiple Django projects on one host behind Nginx with per-project rate limiting, response caching, and environment variable isolation via Docker Compose

Automated Data-Collection Pipeline

[Python](#) · [Selenium](#) · [Pandas](#) · [MySQL](#)

- Wrote a Selenium-based scraper that extracts, cleans, and loads structured data into MySQL via Pandas

RNN Question-Answering System

[Python](#) · [PyTorch](#) · [RNN](#) · [NLP](#)

- Trained an RNN in PyTorch for text-based QA; applied tokenisation and sequence modelling

Movie Recommender System

[Python](#) · [Pandas](#) · [Streamlit](#) · [Django](#) · [REST API](#)

- Content-based recommendation engine: Pandas for scoring, Streamlit UI, Django REST back-end

EDUCATION

B.Sc. Computer Science and Information Technology (CSIT)

Tech AI College, Kathmandu

In progress — Final Year

+2 Science (Physics)

Premier College, Kathmandu

2020 – 2021

CERTIFICATIONS

CCNA Training	90 hrs	Jun – Aug 2023
Python & Django Development	113 hrs	Dec 2021 – Mar 2022, Broadway Infosys
C & C++ Programming	68 hrs	Nov 2021 – Jun 2022, Broadway Infosys
Computer Hardware & Networking	–	Mar – May 2023, Guru Institute of Engineering & Technology

LINKS

github.com/prabinKh | [All Repositories](#) | [Portfolio](#) | [FixItAll Project](#)