

Yogesh Rijal

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SUMMARY

Junior Python developer with hands-on production experience building biometric attendance systems, device-facing REST APIs, and full-stack web platforms using Django REST Framework, FastAPI, and React. Experienced with real-time device sync, PostgreSQL data modeling, JWT authentication, and agile team workflows. Comfortable working across the full backend stack from API design to deployment with Docker.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, FastAPI, PostgreSQL, SQL

Frontend: React.js, Next.js, Bootstrap

Tools & DevOps: Git, Docker, Linux, VS Code, PyCharm, Postman, REST APIs, JSON, WebSockets

Practices: RESTful API design, JWT authentication, agile workflows, code review

EXPERIENCE

Junior Python Developer

March 2026 – Present

Bidhee Pvt. Limited

Kathmandu, Nepal

- Built the microservices backend for Doctors On Call using FastAPI and Docker, containerizing isolated services with dedicated databases behind a unified API Gateway.
- Developed core features for Doctors On Call, including healthcare tracking modules (patient vitals, medicine scheduling, intake/output), a full CMS service (banners, lab tests), and an admin dashboard to aggregate analytics across all services.
- Built a full-stack web platform and custom CMS for Apex Consulting using Next.js, Django Rest Framework, and Django enabling dynamic content updates and automated client consultation workflows.
- Built and containerized a Client Management System using Django and Docker, covering client profiles, service subscriptions, and milestone tracking across multiple products, with support for dual AD and BS (Nepali) calendars, document management, and client activity logs.
- Developed an automated billing and invoicing module for the Client Management System covering multi-currency invoices, tax and discount calculations, and PDF generation, integrated with Celery and Redis for automated payment reminder emails and dashboard analytics.
- Developed key full-stack features for HamroEntrance (Team Nepal) using React, TypeScript, and Django REST Framework, including a real-time adaptive quiz engine with automated difficulty calculation, rate-limited OTP authentication, and seamless Khalti payment integration across web and mobile APIs.
- Maintained and enhanced the Django/DRF backend for a transit ad-tech platform, building a Map tracking service for driver routes and heatmaps, developing API payload logging middleware, and resolving core bugs in campaign lifecycles and pricing logic.
- Built a reliable attendance sync system using pyzk and threading to capture fingerprint punches in real time and send them to HRMS live. Added auto-reconnect so it recovers from network drops, plus a backup-and-retry system that resends any missed records so no attendance data is ever lost, and manual reconciliation work dropped from hours to almost none.
- Created supporting tools for reports and device setup Excel/JSON export tools (using OpenPyXL) that clean up AM/PM formatting, handle missing data, and work with 10,000+ records at once. Also built simple Windows apps for uploading/downloading fingerprint data, so non-technical staff in the field could manage biometric devices easily.
- Built ADMS server-side APIs handling biometric device communication across 20+ client branches covering attendance logs, operation logs, user data, and command responses through iclock/getrequest, iclock/cdata, ATTLOG, and OPERLOG flows, with API-token-protected endpoints for device registration, user management, live activity checks, and queued command dispatch back to devices.
- Built device and user management APIs covering device listing, user listing, add/edit device, and add/edit/delete device user endpoints enabling biometric hardware records and user data to be fully managed and synchronized with HRMS.
- Built RESTful FastAPI APIs for a property rental management system covering property listings, booking management, report generation, and WebSocket-based real-time chat.

Python Developer Intern

January 2026 – March 2026

Bidhee Pvt. Ltd.

Kathmandu, Nepal

- Delivered RESTful APIs across multiple internal projects using Django REST Framework and FastAPI, covering authentication flows, PostgreSQL schema design, and structured request/response handling.
- Reduced onboarding friction by contributing React and Next.js UI components connected directly to backend endpoints, cutting the feedback loop between design and data.
- Accelerated debugging cycles by participating in code reviews and paired troubleshooting sessions with senior developers across both greenfield features and legacy codebases.
- Collaborated using Git, GitHub, and GitLab managing branches, raising pull and merge requests, resolving merge conflicts, and participating in code review cycles with the developers.

PROJECTS

Kharid | *Python, Django, DRF, React* | [Live Demo](#)

August 2025

- Built a full-stack multi-vendor marketplace with separate storefront and admin flows, supporting multiple sellers with independent listings, SKU/variant modeling, and per-variant pricing.
- Integrated eSewa and Khalti payment gateways with server-side verification and idempotent order state transitions.
- Enabled real-time buyer-seller chat via ASGI WebSockets with JWT authentication and role-based access control.
- Implemented coupon validation (usage limits, fixed/percentage discounts) and region-aware shipping logic at checkout.

Glamora | *Python, Django, DRF, React* | [Live Demo](#)

December 2025

- Developed a full-stack CMS platform allowing non-technical admins to manage services, categories, sliders, and media via a React frontend and Django REST API.
- Implemented staff approval workflows, role-based access control, CSRF protection, and token-based password reset.

Car Rental System | *Python, FastAPI, Next.js*

March 2026

- Built a full-stack rental platform with FastAPI backend covering vehicle listings, availability checking, bookings, and report generation endpoints.
- Integrated WebSocket-based real-time chat and secure payment confirmation workflows.

EDUCATION

St. Xavier's College

Kathmandu, Nepal

Bachelor of Science in Computer Science and Information Technology

Graduated: 2026