

UTSAV ADHIKARI

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[Portfolio](#): Live Demos & Source Code | [LinkedIn](#) | [GitHub](#)

Backend Developer | Django REST Framework | ASP.NET | Oracle PL/SQL | Redis | Financial Systems

PROFESSIONAL SUMMARY

Backend Developer experienced in secure financial workflows, claims processing, reconciliation, internal operations, and payment applications. Strong in REST API design, Django/DRF, ASP.NET Web Forms/C#, Oracle PL/SQL, PostgreSQL, RBAC, audit logging, idempotent APIs, and database-backed development.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, ASP.NET Web Forms, C#, REST APIs

Databases: Oracle, PL/SQL, PostgreSQL, SQLite, relational schema design, query optimization

Frontend: React.js, Knockout.js, JavaScript, HTML, CSS

Tools & Systems: Redis, Git/GitHub, Postman, Linux, Agile/Scrum, background processing, API testing

Strengths: Financial workflows, reconciliation logic, idempotent APIs, RBAC, audit logging, secure data handling

PROFESSIONAL EXPERIENCE

Tinker Technologies — Backend Developer

Kathmandu, Nepal | Feb 2025 – Present

- Build and maintain backend services for SSF Nepal modules supporting claims processing, reconciliation, contributor workflows, and internal operations.
- Develop and debug features using Django/DRF, ASP.NET Web Forms/C#, Oracle SQL/PLSQL, and Knockout.js-based internal tools.
- Improve workflow reliability by fixing duplicate payout issues, claim resubmission bugs, validation failures, and inconsistent processing states.
- Design reconciliation APIs for large financial datasets, mismatch detection, audit trails, and structured review/correction flows.
- Implement RBAC, audit logging, validation rules, and secure data-handling patterns for sensitive government and financial modules.

Reflex IT Solution — Backend Developer

Intern → Junior Backend Developer | Kathmandu, Nepal | Aug 2024 – Jan 2025

- Promoted from backend intern to junior backend developer based on performance, ownership, and backend contribution.
- Built and maintained REST APIs using Django and Django REST Framework for internal and client-facing applications.
- Worked with relational databases by writing queries, supporting schema design, and debugging data-related issues.
- Resolved API errors, data inconsistencies, validation failures, edge-case behavior, and request/response integration issues.

PROJECTS

Digital Wallet System — Django REST Framework, React, PostgreSQL

- Built a full-stack wallet system with JWT authentication, balances, P2P transfers, and merchant payment support.
- Designed atomic wallet operations and idempotent payment handling to prevent inconsistent balances and duplicate transactions.
- Integrated merchant payments with an external e-commerce system for real-time payment confirmation.

[Live URL](#) | [GitHub](#)

E-Commerce Platform with Wallet Integration — Django REST Framework, React, PostgreSQL

- Built a full-stack e-commerce platform with JWT authentication, product listings, cart, checkout, and order processing.
- Integrated a custom wallet system for merchant payments and real-time payment confirmation.
- Designed order/payment models with status tracking, reference IDs, transaction IDs, and retry-safe confirmation logic.

[Live URL](#) | [GitHub](#)

Redis-Backed Distributed Rate Limiter – Fast API, Redis, Docker

- Built a production-ready rate limiter with fixed window algorithm, shared Redis counters, and automatic key expiry.
- Implemented tier-based limits (guest=10/min, free=50/min, pro=500/min) with proper HTTP 429 responses and `X-RateLimit-*` headers.
- Containerized with Docker Compose; multiple API instances share state without central bottleneck.
- Includes a simple React frontend to demonstrate rate-limit behaviour across tiers.

[GitHub](#)

Transaction Reconciliation Engine — Django REST Framework, Database Workflows Private employer project — source not public

- Built a reconciliation workflow that compares records from two systems and groups matched, unmatched, and mismatched records.
- Designed backend logic for financial record comparison, mismatch detection, auditability, and structured review.

EDUCATION & CERTIFICATIONS

B.Sc. CSIT | St. Lawrence College, Kathmandu

High School | Trinity International College, Kathmandu

Mastercard Cybersecurity Virtual Experience Program, Forage | May 2024 | [Certification](#)

API Security Fundamentals | [Certification](#)

BLOGS & WRITEUPS

Check out my [blogs](#) and technical write-ups.