

Abhishek Dhital

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PROFESSIONAL SUMMARY

Full-stack software engineer with experience building and shipping production-ready web applications using Node, Flask, and React. Delivered AI-integrated systems including RAG pipelines and ML-based prediction models, and contributed to real-time platforms with complex backend logic. Strong foundation in clean architecture, relational database design, and end-to-end feature delivery across multiple live projects.

KEY COMPETENCIES

- **Languages & Frameworks:** Python, Django, Django REST Framework, Flask, FastAPI, JavaScript, Node.js, React.js, TypeScript, C++
- **AI & ML:** RAG pipelines, LLM integration, prompt engineering, XGBoost, Scikit-learn, NumPy, vector search
- **Databases:** PostgreSQL, Supabase; schema design, ORM, raw SQL, views, stored procedures, RLS policies, query optimization
- **Infrastructure & Tools:** Git, Postman, Nginx, VS Code
- **Auth & Payments:** Google OAuth 2.0, JWT, Stripe API
- **System Design:** REST API design, multitenant architecture, real-time systems, caching strategies
- **Other:** UML, Jupyter Notebook, iterative development, technical documentation, On-page SEO, Google Search Console, tool/function calling, agentic workflows, MVP Development

EDUCATION

Bachelor of Engineering in Software Engineering

Nepal College of Information Technology, Lalitpur

2021 – 2026

PROJECTS

NPL Fantasy — Fantasy Cricket Web Application

2026 - present

- Built a full-stack fantasy cricket platform for Nepal Premier League where users create squads, join contests, and earn points based on real match performance
- Implemented squad creation with budget and player constraints, match-based fantasy scoring engine, and automated point distribution logic
- Built REST APIs and database schemas for players, matches, teams, contests, and leaderboards
- Developed live leaderboard updates and real-time match stat handling for fantasy point calculations
- Implemented secure user authentication and responsive UI for smooth gameplay experience
- **Tech:** React.js, Django REST Framework, PostgreSQL, JWT Auth, Tailwind CSS, REST APIs

EverTrek Nepal — ML integrated Trek Booking Platform

2026

- Architected the full backend with Django REST Framework — modular apps for bookings, users, trek management, and weather integration
- Designed and exposed DRF viewsets, serializers, and permission classes for all API endpoints consumed by the React frontend

- Built a RAG-based chatbot — designed the chunking, embedding, and ranked retrieval pipeline end-to-end
- Trained and deployed an XGBoost ensemble model for departure risk prediction; served via Flask inference endpoint
- Engineered features from structured weather and booking data; integrated external weather APIs with caching and validation
- **Tech:** Python, Django REST Framework, Flask, React.js, Tailwind CSS, PostgreSQL, XGBoost, Scikit-learn, NumPy

agronepal — Multi-Vendor Agriculture Marketplace

2024/25

- Built the full Django backend with custom model managers, signals, and serializers for multi-vendor product and order management
- Designed relational SQLite schema with constraints and migrations for vendors, products, orders, and users
- Exposed clean REST API endpoints for listing, filtering, cart, and checkout with structured error handling
- **Tech:** Django Framework, REST APIs, React.js, SQLite, Tailwind CSS

EXPERIENCE

Full Stack Developer — Kibu Space, Kathmandu

Jan 2026 – Mar 2026

Hbot — Free, Offline Document Scanner for Windows

- Built and shipped Hbot, a 100% free, fully offline Windows desktop app for scanning, enhancing, and managing documents, with no data ever leaving the user's machine
- Built document enhancement and annotation tools, color correction, shadow removal, denoising, and in-app pen/marker/highlighter annotation with per-page undo/redo
- Implemented smart-crop, format conversion (Images ↔ PDF, PDF ↔ Word), merge/split, drag-to-reorder page management, and AES-256 password protection
- **Tech:** Python, desktop GUI, image processing, PDF/Word conversion, AES-256 encryption

IT Engineer — Nepal Computer Suppliers, Kathmandu

June 2025 – Nov 2025

- Developed and maintained internal inventory and supply chain management software to streamline stock tracking and order processing
- Managed database records and ensured data consistency across inventory systems
- Provided system maintenance, troubleshooting, and technical support for daily operations

AWARDS & RECOGNITION

- Hult Prize Participation in NCIT Feb 2025
- Participated Hackfest by NOSK Jan 2025
- 45-hr SQA and Testing Training Aug/Sep 2024