

Pratik Thapa

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SUMMARY

Full Stack AI Engineer with 4+ years building production-grade applications across AI systems, blockchain, and web platforms. Proven track record delivering scalable AI-powered products (RAG pipelines, LLM integrations, AI agents) alongside robust full-stack systems using TypeScript, React, Next.js, and Node.js. 1+ year hands-on AI engineering experience architecting LLM workflows, vector search, and intelligent document processing. Experienced leading development teams and shipping from design to deployment in agile environments.

TECHNICAL SKILLS

AI / ML: LLM Integration, RAG Pipelines, LangChain, Vercel AI SDK, OpenAI API, AI Agents, OCR, Vector Search, Prompt Engineering

Frontend: TypeScript, React, Next.js, Tailwind CSS, shadcn/ui, Zustand, React Query

Backend: Node.js, Hono.js, Nest.js, Express.js, REST API, GraphQL, Turborepo

Database: PostgreSQL, MongoDB, TypeORM, Prisma, Redis

DevOps/Cloud: Docker, AWS, Cloudflare, CI/CD, Linux, Git

Blockchain: Stacks/Bitcoin, Clarity Smart Contracts, Ordinals, Nostr, Wallet Integration

EXPERIENCE

Builders Academy

Aug 2025 – Present

Full Stack Web | AI | Blockchain Developer

Pokhara, Nepal

- Shipped production AI and blockchain applications in agile teams
- Built propertyX - Real yield RWA protocol on bitcoin (stacks.btc)
- Developed storywonderbook - AI story generator with 100+ generated stories
- Built builders academy - Education platform LMS system

Black Tech

Dec 2023 – Oct 2024

Frontend Developer

Pokhara, Nepal

- Architected multi-tenant system for scalable restaurant management across vendors
- Led multi-vendor e-commerce platform with ordering and billing systems
- Built real-time analytics dashboard for sales, inventory, and customer insights
- Implemented daybook and bulk upload systems for restaurant operations
- Designed modular components for menu, reservations, and staff scheduling

Builders Academy

Jul 2023 – Dec 2023

Blockchain Developer

Remote

- Developed Ordinal Scan tool for BTC Ordinals P&L analysis
- Worked on Nostr-based decentralized applications
- Built wallet integration and transaction signing flows

Dcube Accounting System

Feb 2023 – Jun 2023

React Developer

Remote

- Built accounting modules for retail systems
- Integrated barcode/QR and receipt processing

- Improved inventory workflows

Freelance

2022 – Present

Full Stack Developer

Remote

- Delivered 10+ full-stack applications across SaaS and AI systems
- Built FynePDF with merge, compress, OCR, summarization, and diff
- Developed WebRTC platform for real-time video and audio communication
- Shipped production websites for Highlands Tech, Valora Research, Safezone

KEY PROJECTS

FynePDF – AI-powered PDF toolkit suite

[link](#)

- Next.js, TypeScript, AI Agents, Langchain, Cloudflare, Hono.js
- Built PDF toolkit with merge, compress, and split features
- Integrated AI agents for OCR and document summarization
- Implemented intelligent diff comparison for document versions

Restrox – Enterprise restaurant SaaS platform

[link](#)

- Next.js, Nest.js, Postgresql, Typeorm, Docker
- Built restaurant dashboard for sales and inventory tracking
- Developed daybook system for multi-restaurant operations
- Implemented bulk dish operations for menu management

StoryWonderBook – AI personalized children's story platform

[link](#)

- Next.js, Nest.js, Vercel AI SDK
- Built AI system generating personalized children's stories
- Scaled platform to 1,000+ generated stories globally
- Designed full-stack pipeline for dynamic story creation

PropertyX – Bitcoin-secured RWA yield protocol

[link](#)

- Next.js, TypeScript, Stacks, Clarity, Rust
- Built Real Yield protocol tokenizing real-world assets
- Developed smart contracts for yield distribution system
- Integrated blockchain-based asset ownership and verification

Builders Academy – Full-stack tech academy & engineering firm

[link](#)

- Next.js, TypeScript, Postgresql, Turborepo
- Built CMS and LMS across multiple subdomain systems
- Unified education, admin, and house platforms in monorepo
- Designed scalable architecture for multi-tenant web apps

CERTIFICATIONS

DevOps with Docker – University of Helsinki, MOOC.fi [view](#)

- Docker, Containers, CI/CD, DevOps

Node.js Mentorship Program – Month-long intensive mentorship [view](#)

- Node.js, Backend Development

Relational Database – freeCodeCamp certified [view](#)

- PostgreSQL, Bash, Git, Linux

JavaScript Algorithms & Data Structures – freeCodeCamp certified [view](#)

- JavaScript, Algorithms, Data Structures

Responsive Web Design – freeCodeCamp certified [view](#)

- HTML, CSS, Flexbox, Grid, Accessibility

EDUCATION & TALKS

Prithvi Narayan Campus Bagar, Pokhara
Bachelor of Computer Applications Nov 2023 – Aug 2026

Solana Frontier City Mixer [view](#)
Hosted Web3 talk covering blockchain origins and the road ahead

AWS Student Builders, Prithvi Narayan Campus [view](#)
Education & Technical Department Executive