

Subash Rimal

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SUMMARY

Backend and Automation Engineer with 3+ years building production automation pipelines, REST APIs, and full-stack systems in Python and TypeScript. Specializes in hard automation problems — anti-bot bypass, concurrent scraping at scale, and pipeline design that eliminates entire manual workflows. Owns the full delivery cycle: API design, Django/Next.js implementation, Dockerized deployment, and Linux VPS operations. Deep CS fundamentals proven by building a language interpreter and a logic-programming engine from scratch.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, C, Bash

Automation: Web Scraping at Scale, Anti-Bot / Cloudflare Bypass, Browser Automation, Concurrency, Pipeline Design

Backend: Django, Django REST Framework, REST API Design, Next.js, React, Tailwind CSS

Infrastructure: Docker, Linux, Nginx, VPS Administration, Git, CI/CD, GitHub Actions

Domains: Blockchain Integration (BSC, WalletConnect), SEO

EXPERIENCE

Firefly IT Solutions

Pokhara, Nepal

Python Backend and Automation Engineer

03/2024 – Present

- Eliminated 10+ hours of manual client workflows weekly by designing and operating Python automation pipelines for data collection, processing, and delivery.
- Delivered 5+ full-stack client applications end to end by designing Django REST APIs and shipping Dockerized deployments, cutting release setup from manual server work to repeatable container builds.
- Administer production VPS infrastructure hosting 5+ client applications with high uptime by standardizing Nginx configuration, releases, and monitoring on Linux.
- Reduced deployment errors and onboarding time by mentoring 3+ engineers on Linux administration and deployment workflows through hands-on training.

Upwork — Freelance Software Engineer

Remote

Automation and backend contracts across blockchain, data, and e-commerce

11/2022 – Present

- Engineered Python scraping systems that bypass Cloudflare and enterprise anti-bot protection, fully replacing manual data-collection workflows for clients where off-the-shelf scrapers fail.
- Built concurrent scraping and filtering pipelines processing thousands of e-commerce listings per run, turning hours of manual product research into minutes.
- Shipped a production blockchain referral system on Binance Smart Chain by integrating WalletConnect and smart-contract-driven referral tracking for a live product. [GitHub]
- Built a Django REST backend for DNS data management by integrating the SecurityTrails API, enabling automated domain-intelligence lookups that replaced manual research.

PROJECTS

SRKC Banquet — Production Venue Website | Next.js, Tailwind CSS, SEO

03/2026 – Present

- Launched and operate the live website for a multi-location banquet business, building SEO-optimized pages, venue showcases, and searchable FAQs; sole engineer from design to deployment.

Lox Language Interpreter | Python

11/2024 – 02/2025

- Implemented a complete programming-language interpreter from scratch — lexer, recursive-descent parser, and tree-walking evaluator — covering expressions, control flow, functions, and scoping.

Prolog Simulation Engine | Python

07/2024 – 09/2024

- Built a logic-programming engine replicating core Prolog semantics, implementing unification and backtracking search over rule databases.

EDUCATION

Tribhuvan University

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

Pokhara, Nepal

08/2022 – 06/2024

ACHIEVEMENTS

Second Runner-Up, Competitive Coding Competition — GCES Pokhara (06/2023)

Hackathon participant — Ethos Hack, Deerhack

Languages: English (Professional), Nepali (Native), Hindi (Fluent)