

AMAN SHRESTHA

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Education

Tribhuvan University – Kathmandu, Nepal
Bachelor in Information Management (3.64 CGPA)

Completed: 2019-2023

Professional Summary

A Software Developer with 2 years of experience and specialization in crafting robust APIs, Third-Party Integrations, Database Management, Web Scraping, Automation and Optimizing Backend Systems while enhancing scalability and security, and fostering collaborative teamwork to drive innovative solutions.

Technical Skills

Programming: Python, JavaScript, React, Django, Django Rest Framework (DRF), FastAPI Databases: PostgreSQL, MariaDB, Redis, MongoDB DevOps/Cloud: Linux, Docker, AWS, Nginx, Bash Scripting, Portainer Testing/Tools: Unit/Integration Tests, Git/Github, Postman, JIRA, VS Code	APIs/Protocols: RESTful API Design, GraphQL, Third-Party Integrations Security: OAuth2.0, Encryption/Hashing, and OTP. Other: Web Scraping, Automation, AI/LLMs/RAG, HTML/CSS, Tailwind, Bootstrap
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Work Experience

(May 2023 – Present)

Freelance Full Stack Developer

Remote | (Aug 2024 – Present)

Collaborated with clients globally on diverse software projects providing end-to-end development and solutions.

Key Freelancing Projects

AI Healthcare Platform — Full Stack Django/React Developer ([Link](#))

- Designed and developed a robust, production-grade REST API architecture, strictly adhering to industry-standard software engineering practices.
- Optimized performance and maintained user experience under load by leveraging Celery with Redis for asynchronous task processing and background operations.
- Ensured long-term platform stability by automating core infrastructure deployment with Docker and establishing robust, periodic data backup protocols for disaster recovery.
- Integrated various third-party business services (Umami, Zimbra, Saleor) to expand platform utility and support marketing, email, and sales features.

Vocational Institute Management Multi-Tenant Platform ([link](#))

- Architected a SaaS-based multi-tenant system enabling individual institutions (e.g. *school1.domain.com*) to operate autonomously within a shared platform.
- Implemented comprehensive role-based access control (Admin, Instructor, Student, Director, Bursar) with real time analytics dashboard and other institution management modules.

Job Board Platform (Saudi Arabian Market) — Backend Developer

- Engineered a job marketplace platform featuring employer/employee onboarding, approval workflows, project posting, chatrooms, and hiring pipelines.
- Designed modular, RESTful Django APIs with secure authentication and scalable architecture.

QR/Bar Code Based Data Printing Web App – Python Developer ([link](#))

- Designed and developed a SaaS platform that allows subscribers print QR and Bar Code labels for various Oddy Label sheet layouts.
- Enabled users to generate standardized, professional-grade labels with logos, QR/bar codes, and product details—completely eliminating manual label creation via Excel or CSV file.
- Helped small and medium-scale industries streamline their product labeling processes for retail

packaging, warehouse inventory, and logistics management.
Competitor Repricing Tool — Python Developer <ul style="list-style-type: none">Enhanced and productionized an internal repricing engine for e-commerce use.Scraped competitor websites, calculated pricing deltas, and designed dynamic repricing rules based on SKUs and competitor data.Optimized workflow for deployment on Railway with improved stability and monitoring.
Business Contact Extraction Tool — Python Developer <ul style="list-style-type: none">Built and delivered a Google Business scraping tool that retrieves verified business contact information (email, phone, website) using internal Google Maps API endpoints.Implemented a lightweight Django interface for server-side control and data export.
Pulseee.io — Django Specialist (Consultant) (link) <ul style="list-style-type: none">Conducted architecture and performance review for a startup running multiple Django-based microservices handling website, keyword, port, ssl monitoring, etcProvided feedback on microservice communication strategies and shared database design for improved observability and scaling.
Veterinary E-Commerce Platform — Full Stack Developer (link) <ul style="list-style-type: none">Developed an e-commerce project for a veterinary shop where various pet shops item could be listed and users can purchase them with google location delivery.

Associate Software Engineer, IME Khalti, Bakhundole, Lalitpur (Link)
Onsite | (Sep 2023- Aug 2024)

- Worked on critical services responsible for more than 60% of the product at Khalti Digital Wallet.
- Integrated various third-party services such as Remittance Services, Cooperatives, Nepse TMS, etc.
- Delivered robust, well-documented APIs adhering to industry best practices, ensuring the reliability, security, and scalability of backend systems.
- Collaborated effectively within cross-functional teams, fostering clear communication and delivering high-quality, maintainable solutions.
- Applied a problem-solving mindset to address complex technical challenges, optimize system performance, and contribute to the development of innovative fintech features.

Python Developer Intern, IME Khalti, Bakhundole, Lalitpur (Link)
Onsite | (May 2023- Sep 2023)

- Built and contributed to Full Stack Project from the ground up, gaining valuable exposure to both development and business operations.
- Developed a solid understanding of how technology integrates into business workflows and how companies benefit from scalable, user-focused solutions.
- Gained insight into the business requirements and learned how to manage project timelines, deliverables, and communication within a collaborative team.

CERTIFICATIONS

<i>Programming Essentials in Python, Python Institute (verify)</i>
<i>Introduction to Cyber Security (verify)</i>

REFERENCE

Subit Raj Pokhrel (Assistant Chief Technology Officer at IME Khalti, rajsubit@khalti.com)
Ashin Shakya (Senior Software Engineer at IME Khalti, engineer.ashin.shakya@gmail.com)
Diwakar Upadhyaya (System Implementation and DevOps Engineer, linkedin.com/in/diwakar-upadhyaya-b11559107)