GIRISH RAJ THAPA

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PROFESSIONAL SUMMARY

Associate Software Engineer with 1+ year of production experience developing robust backend services, transactional workflows, and web applications across Python (FastAPI/Django), PostgreSQL, and Vue/React. Skilled in translating intricate domain requirements into high-integrity systems, with a track record of deploying zero-loss retry pipelines and production-ready APIs.

EXPERIENCE

Associate Software Engineer | Kodiary Technologies Pvt. Ltd., Lalitpur, Nepal **January 2026 – Present**

- **Cronlink (Trucking & Haulage Platform):**
  - Built automated Stripe subscription billing with dynamic fleet capacity tiers and add-ons, replacing manual billing workflows.
  - Built the subscription and compliance workflow frontend using Vue.js and Nuxt.js, implementing client-side guards across 12+ modules to block dispatches with expired provincial permits.
- **Eventmx (Event Ticketing Platform):**
  - Built an AI floor-plan digitization pipeline using FastSAM zero-shot segmentation and docTR OCR to convert uploaded static booth maps into bookable stall layouts.
  - Developed an in-house advertising and promo engine with viewport impression tracking, click-fraud checks, and dynamic checkout billing integrated with eSewa and Khalti.
- **Jhyappai (High-Throughput SMS Platform):**
  - Built an atomic SMS retry engine on Bull that automated failure refunds and delivery callback reconciliation, eliminating wallet credit loss on failed carrier attempts.
  - Implemented secure admin impersonation using single-use, short-lived JWTs with audit logging and replay protection for customer support triage.

Software Engineer Intern | Kodiary Technologies Pvt. Ltd., Lalitpur, Nepal **September 2025 – December 2025**

- **EkEkPaila Hospital Management System:**
  - Developed 30+ FastAPI endpoints for patient electronic medical records, clinical diagnoses, pharmacy dispensing, and laboratory reporting.
  - Built responsive React workflows for clinical medicine dispensing and tested remote medical camp workflows with the internal team.

Data Science Intern & Traineeship | DLytica Inc., Lalitpur, Nepal **July 2025 – November 2025**

- Analyzed banking transaction datasets with Python and SQL, building interactive Apache Superset KPI dashboards to monitor customer churn patterns.

EDUCATION

BSc (Hons) Computing | Islington College | London Metropolitan University **2023 - Present**

SKILLS

- **Languages:** Python, TypeScript, JavaScript, SQL
- **Backend & Queues:** FastAPI, Django, Django REST Framework, Celery, Bull, RESTful APIs
- **Frontend:** Vue.js, Nuxt.js, React, Next.js, Tailwind CSS, HTML5, CSS3
- **Databases & Storage:** PostgreSQL, Redis, MinIO (S3)
- **Tools & Infrastructure:** Docker, Nginx, Git, GitHub, Stripe API
- **AI & Computer Vision:** FastSAM, docTR OCR, LangChain
- **Soft Skills:** Analytical Thinking, Clear Communication, Time Management, Team Leadership, Adaptability, Growth Mindset

PROJECTS

Feedback System https://github.com/Girish-Raj-Thapa/feedback-system

Next.js | FastAPI | PostgreSQL | Redis

- Built a multi-tenant customer feedback widget and management dashboard with embeddable scripts and workspace-level data isolation.
- Implemented an in-memory keyword matching and sentiment classification engine delivering sub-10ms response latency without third-party LLM costs.

AI Email Workflow Automation https://github.com/Girish-Raj-Thapa/email_workflow_automater

FastAPI | LangChain | PostgreSQL

- Built an automated email intelligence service ingesting incoming messages via IMAP and parsing structured user intent using LangChain.
- Implemented automated response drafting pipelines with human-in-the-loop review gates and transactional state persistence.

ConnectNepal (Final Year College Project) https://github.com/Girish-Raj-Thapa/connectnepal

Django | React | PostgreSQL

- Developed a full-stack tourism management platform connecting travelers with local hosts, featuring customizable itinerary planning and booking settlements.
- Built role-based access control and responsive UI views to streamline service listings, reservations, and user onboarding.