Swopnil Maharjan

Software Engineer | API Development, Integrations & Testing
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SUMMARY

Software engineer with **3.5+ years** of experience, currently working on a white-label remittance platform: payment, KYC, and payout integrations, compliance features, and production fixes. I work in **Agile sprints**, from estimating and picking up tickets to code review and release prep. Before this, I built **KU-EMIS**, the exam system for Kathmandu University School of Management, and led small teams on client projects, running sprint planning and reviews. Most of my work is in TypeScript and Python, and I've shipped projects on NestJS, Express, and React with SQL (PostgreSQL, MySQL) and NoSQL (MongoDB) databases, and I'm currently working with DynamoDB.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL
Frameworks	Node.js, NestJS, Express.js, FastAPI, React.js, Next.js, Tailwind CSS
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB, Redis | Prisma, TypeORM, query optimization
Testing & Tools	Jest (unit & integration tests), Git, debugging, code review, Postman, Docker
AWS & DevOps	Lambda, API Gateway, SQS, SNS, EventBridge, S3, RDS, EC2, CloudFormation, GitHub Actions
Integrations	REST APIs, webhooks (HMAC), payment, KYC, and payout providers, OAuth2, BullMQ
AI / ML	LLM APIs, prompt engineering, RAG, embeddings, scikit-learn, pandas
Design & Principles	SOLID, DRY, Separation of Concerns, DI/IoC, Event-Driven, Multi-Tenant
Practices	Agile/Scrum, estimation, release preparation, technical documentation, requirements analysis

PROFESSIONAL EXPERIENCE

Codavatar Tech Pvt. Ltd. Feb 2026 – Present
Associate Software Engineer *Lalitpur, Nepal*

- Build core features of our **white-label remittance platform**, starting with its **compliance layer**: KYC verification, AML/PEP and adverse-media screening, volume monitoring, per-transaction risk assessment, and audit trails.
- Integrated payment, KYC, and payout providers behind a **unified payment-method abstraction** and a single **event-driven transfer pipeline**, so new providers plug in without touching core flows.
- Built **payout routing** with registry-gated, priority-ranked provider selection, plus **corridor-specific promotional rates** and referral campaigns.
- Investigate and fix **production defects** in provider integrations (e.g. sending wallet vs. bank account numbers for payouts) and remove dead code in KYC webhook handling, keeping existing services compatible.
- Took **technical lead on Walcy**, a client brand, through its **first production launch**; deployed **Remit123**, starting with the Canada–Nepal corridor, on the licensed **RemitOS** platform.

Ek Ra Sunya May 2025 – Feb 2026
Full-Stack Developer *Lalitpur, Nepal*

- Led **KU-EMIS**, the exam management system for **Kathmandu University School of Management**, gathering requirements with faculty and digitizing exam scheduling, results, and student records.
- Led **ACAN's membership platform** (registration, renewals, payments) and built a **high-concurrency ticketing platform** using locking and retries to prevent overselling and double bookings.
- Led development teams (sprint planning, **code reviews**, estimates) and set team **architecture standards**: SOLID, DRY, layered NestJS modules, DI/IoC, Redis and BullMQ.

Fagoon AI Mar 2024 – Feb 2025
Full-Stack Developer (MERN) *Lalitpur, Nepal*

- Built **Tool Upgrade**, a **multi-model AI chat platform** (similar to OpenRouter) letting users switch between LLMs such as ChatGPT and Claude, from frontend to backend APIs.
- Built **Kuku**, a social media app, and an **internal CRM and HRMS** to manage clients, leads, employees, and day-to-day operations.
- Built NestJS services integrating the **WhatsApp and Facebook APIs**; deployed on AWS EC2.

FREELANCE PROJECTS

- **TroolDs:** Frontend developer for the pre-launch site of a new **AI learning tool**, building a step-by-step experience with **progressive disclosure** that reveals content as users interact.
- **Kilo Code fork:** Built a customized fork of **Kilo Code**, an open-source AI coding assistant (VS Code extension), tailored to a client's product and use case.
- **Local services website:** Built a dynamic website for an HVAC business offering AC servicing and cold-room installation, with service listings and inquiry forms.

EDUCATION

B.Sc. CSIT, Patan Multiple Campus, Tribhuvan University Apr 2021 – Feb 2026
AWS Academy Graduate – Cloud Foundations