

ALIZ ACHARYA

Backend Engineer

Kathmandu, Nepal | Remote - AU / EU / US

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PROFESSIONAL SUMMARY

Backend Engineer with 3+ years building production systems for e-commerce and fintech. Delivered **40% availability gains**, **100% expansion in payment coverage**, and deployments across **10+ banking institutions**. Open to remote roles, consulting, and freelance engagements.

CORE COMPETENCIES

Backend & APIs: Python, FastAPI, Flask, Django, REST APIs, Microservices, SQLAlchemy, WebSockets, RabbitMQ

Cloud & DevOps: AWS (Lambda, API Gateway, EC2, S3, CloudFormation, ELB), Docker, CI/CD, Nginx, Linux

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, OpenSearch

Architecture: System Design, Software Architecture, Microservices, Domain-Driven Design, Event-Driven Systems, Performance Optimization

Integrations: Payment Gateways, Card Tokenization, Dynamic QR, Third-party APIs, ERP Systems (Odoo)

Practices: Agile, Scrum, Test-Driven Development (pytest), Code Profiling, Cross-functional Collaboration, Technical Leadership

Tools: Git, GitHub, GitLab, Jira, Confluence

PROFESSIONAL EXPERIENCE

Jeevee Pvt. Ltd. / Software Engineer

Kathmandu, Nepal | April 2024 - Present

- Architected real-time on-demand order processing platform with vendor collaboration pipeline (RabbitMQ); improved product availability by 40% and order accuracy by 60%.
- Integrated multiple payment gateways with card tokenization and dynamic QR via AWS Lambda; expanded payment coverage by 100% while meeting enterprise security standards.
- Optimized homepage and core APIs; cut page load time by 30% and reduced server response by 25% through API separation, query tuning, and Redis migration.
- Designed AWS infrastructure (Lambda, API Gateway, EC2) for peak-hour scalability; built CI/CD pipeline for automated Lambda deployments using S3 versioning and CloudFormation.
- Built agent-based recommendation engine with autonomous learning, driving higher user engagement and conversion through real-time personalization.
- Delivered nationwide POS system with real-time price synchronization and dynamic discounting, deployed across Jeevee Square retail locations.
- Led Odoo ERP migration (v13 to v16), achieving 30% faster internal processing; designed and integrated custom Odoo modules with cross-functional stakeholders.

Technologies: Python, FastAPI, Flask, SQLAlchemy, Odoo, PostgreSQL, Redis, OpenSearch, RabbitMQ

Infrastructure: AWS (Lambda, API Gateway, EC2, S3, CloudFormation), Docker, Linux, WebSockets

Gokyo Labs Pvt. Ltd. / Backend Developer

Kathmandu, Nepal | August 2022 - March 2024

- Deployed and supported backend systems across 10+ banks, debugging and resolving real-time microservice challenges in live banking environments.
- Built Flask-based engine with a unified data access layer across plugins, efficiently processing 1M+ rows of transaction data.
- Eliminated microservice performance bottlenecks using Line Profiler and targeted query optimization, materially improving response times.
- Raised test coverage with pytest, significantly reducing production bugs on new feature releases.
- Partnered with non-technical stakeholders (chartered accountants, bankers, compliance officers) to translate business requirements into shipped technical features.

Technologies: Python, Flask, SQLAlchemy, PostgreSQL, Linux, Sockets, Nginx

CERTIFICATIONS

- Licensed Computer Engineer, Nepal Engineering Council
- Generative AI and LLMs: Architecture and Data Preparation, IBM

EDUCATION

Bachelor of Engineering, Computer Engineering

Purbanchal University, Nepal | 2017 - 2021