

Mausam Pun

Backend Engineer

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Summary

Backend engineer passionate about building reliable, maintainable, and high-performance Rails applications. Experienced in designing scalable systems, automating CI/CD pipelines, integrating third-party services like Stripe and Google APIs, and mentoring junior developers. Adept at turning complex requirements into clean, efficient solutions while maintaining production-grade standards.

Experience

Software Engineer

Jun 2023 – Present

Truemark Technology, Kathmandu

- Designed and maintained scalable backend services for HR, payroll, CRM, and eCommerce platforms using Ruby on Rails and PostgreSQL.
- Built a payroll processing module handling salary calculations, tax deductions, and Nepal taxation compliance.
- Implemented Stripe-based subscription and billing systems, including webhook handling and idempotent background job processing for reliable payment synchronization.
- Designed and maintained RESTful APIs for secure and efficient data exchange across systems.
- Built asynchronous workflows using Sidekiq and Solid Queue for reliable background processing.
- Improved API performance by resolving N+1 queries and introducing query optimizations and caching.
- Built a RAG pipeline for processing unstructured data, enabling semantic search and context-aware retrieval across internal datasets.
- Developed and maintained automated RSpec test suites (87%+ coverage), integrated into CI pipelines to ensure code quality and prevent regressions.
- Managed containerized deployments using Docker and Kamal, supporting multiple production services and self-hosted platforms.
- Maintained and deployed Campsite for internal team communication and collaboration.
- Contributed to system design and architectural decisions, improving scalability, maintainability, and fault tolerance of backend services.

Education

Bachelor in Computer Engineering

2018 – 2023

Institute of Engineering, Tribhuvan University, Nepal

Certifications

AWS Academy Graduate – AWS Academy Cloud Foundations (2022)

Core Technologies

Languages: Ruby, JavaScript, Python

Backend: Ruby on Rails, Sinatra

Frontend: Hotwire, HTML, CSS

Databases: PostgreSQL, MySQL

Async Processing: Sidekiq, Solid Queue

APIs & Integrations: Stripe, Slack (bot, events API), Google (Emails, Calendar, Contacts)

Infrastructure: Docker, Kamal, AWS, Redis, CI/CD

Testing: RSpec, Minitest