

Nishchal Acharya

Software Development Engineer | Backend & Full-Stack Systems

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PROFESSIONAL SUMMARY

Software Development Engineer specializing in backend infrastructure and full-stack web applications using Go, PHP (Laravel, Filament), and modern JavaScript. Proven track record in engineering robust RESTful APIs, high-availability e-commerce architectures, enterprise management systems, and backoffice administrative portals. Proficient in designing scalable distributed services, tuning database query performance, and implementing secure, enterprise-grade software. Driven by a passion for delivering high-throughput backend systems, resilient web applications, and cloud-native solutions.

TECHNICAL SKILLS

Programming Languages: Go (Golang), PHP, JavaScript (ES6+), C, C++, SQL

Backend Frameworks & CMS: Laravel, Filament Admin Panel (v3), Go (net/http, Goroutines, Gin).

API & Distributed Systems: RESTful APIs for Mobile Apps, Microservices, Message Brokers, Asynchronous Queues, Webhooks

Databases & Caching: PostgreSQL, MySQL, Redis (Caching, Queues), SQLite, Eloquent ORM

Frontend Technologies: React.js, Next.js, Blade Templates, Tailwind CSS, HTML5, CSS3, Vite

DevOps, Cloud & Tooling: Docker, Linux (Ubuntu/Debian), Git, GitHub Actions, CI/CD, Nginx, Apache, Postman

PROFESSIONAL EXPERIENCE

Software Development Engineer - BIT Iconic (Lalitpur, Nepal)

March 2026 - Present

- **Hydropower Plant Management System:** Architected core backend services for enterprise hydropower plant management; engineered data pipelines and business logic for water flow monitoring, turbine telemetry, generation tracking, and automated shift allocation.
- **Offline/Online POS Synchronization:** Engineered a fault-tolerant synchronization architecture connecting decentralized offline POS terminals to central cloud databases using message brokers, ensuring zero transaction loss, conflict resolution, and automatic catch-up on reconnection.
- **Mobile App REST APIs & Services:** Designed and deployed high-throughput, secure RESTful API endpoints for mobile applications, featuring stateless JWT/Sanctum authentication, optimized payload serialization, and low-latency database queries.
- **Filament Admin Portals & E-Commerce:** Developed full-featured backoffice management portals using Laravel Filament, automating inventory workflows, custom analytics dashboards, and role-based operational permissions.
- **High-Performance Microservices:** Built concurrent microservices in **Go** and **Laravel**, leveraging Redis caching and database indexing to achieve consistent sub-50ms endpoint response times.
- **DevOps & Containerization:** Standardized Docker development environments and automated CI/CD deployment pipelines, accelerating delivery cycles across staging and production servers.

Software Developer Intern - BIT Iconic (Lalitpur, Nepal)

January 2026 - March 2026

- Built modular REST API endpoints, structured request validation rules, and role-based access control (RBAC) middleware for web and mobile clients using Go and Laravel.
- Designed relational database schemas, executed database migrations, and optimized SQL queries for PostgreSQL and MySQL under senior engineering mentorship.
- Collaborated actively in Agile Scrum sprint cycles, daily standups, peer code reviews, and Git branching workflows.

- Built, deployed, and maintained corporate web applications and commercial platforms, ensuring 99.9% uptime, responsive cross-device layouts, and fast load times.
- Engineered custom e-commerce product catalogs and business inquiry workflows tailored for high customer conversion.
- Managed Linux/cPanel server environments, automated deployments, SSL configurations, and web asset performance optimizations.
- Designed intuitive UI/UX wireframes, digital marketing assets, and brand creatives across digital channels.

FEATURED PROJECTS

Shift Management & Operations System | *Go (Golang), PostgreSQL, Docker, Linux*

[GitHub ↗](#)

- Engineered a concurrent workforce shift scheduling system in Go with real-time overlap detection using goroutines and interval checks under Domain-Driven Design (DDD).

Robust Trade - Enterprise Catalog & Order Platform | *Laravel, Filament, PHP, MySQL, Tailwind CSS*

[Case Study ↗](#)

- Architected an enterprise B2B product catalog and distribution platform featuring custom Filament administration, dynamic quotation engines, and automated invoice PDF generation.

Celtic Trekking - Tour & Expedition Platform | *Laravel, PHP, MySQL, Tailwind CSS, Linux*

[Case Study ↗](#)

- Built a commercial tourism platform enabling dynamic itinerary authoring, multi-day booking inquiry management, and an administrative backoffice.

AutoTweet - Automated Social Publisher | *Next.js, JavaScript, Twitter API v2*

[GitHub ↗](#)

- Created an automated social publishing engine with Twitter OAuth 2.0 PKCE authentication and resilient asynchronous job queues with rate-limit backoff.

MiniMotors - Full-Stack E-Commerce Platform | *React.js, Laravel REST API, MySQL, Khalti*

[GitHub ↗](#)

- Developed a decoupled e-commerce store with mobile-ready REST APIs, real-time inventory management, cart state, and Khalti payment gateway integration.

EDUCATION

**B.Sc. in Computer Science and Information
Technology (B.Sc. CSIT)**
Tribhuvan University

2022 - Present
Kathmandu, Nepal

**+2 Science (Computer
Science)**
United Academy

2020 - 2022
Lalitpur, Nepal

LANGUAGES & ADDITIONAL INFORMATION

Languages

- **English:** Professional Working Proficiency
- **Nepali:** Native / Mother Tongue
- **Hindi:** Fluent / Conversational

Driving License

- **Category A:** Motorcycle / Scooter
- **Category B:** Car / Light Vehicle