

Darshan Bahadur Chhetri

Backend Software Engineer

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[GitHub](#) — [LinkedIn](#) — [Portfolio](#)

Professional Summary

Backend Software Engineer with over two years of experience designing and developing ERP, SaaS, and enterprise web applications using Laravel, PHP, and modern web technologies. Experienced in building scalable RESTful APIs, optimizing relational databases, implementing real-time communication, and developing secure multi-tenant systems. Familiar with Python, Django, Vue.js, Next.js, and cloud deployment workflows. Passionate about software architecture, backend engineering, and solving complex business problems through clean, maintainable, and scalable software solutions.

Engineering Highlights

- Designed and developed backend solutions for ERP, Inventory Management, and Ticketing platforms used in production environments.
- Built and maintained 15+ RESTful APIs supporting authentication, reporting, administrative workflows, and business operations.
- Engineered concurrent ticket booking workflows using database transactions and locking strategies to ensure data consistency during high-volume requests.
- Optimized MySQL queries, background jobs, and application performance using indexing, eager loading, caching, and Laravel Queues.
- Collaborated within Agile teams to deliver scalable backend features while participating in code reviews, deployments, and technical discussions.

Core Technical Skills

Languages

PHP, JavaScript (ES6+), Python, SQL

Backend

Laravel, Django, Livewire, RESTful APIs

Frontend

Vue.js, Next.js, React.js, Blade, Tailwind CSS, Bootstrap

Databases

MySQL, PostgreSQL, Redis

DevOps & Cloud

Docker, Linux, Nginx, Git, GitHub Actions, DigitalOcean

Software Engineering

System Design, Database Design, Multi-Tenant Architecture, RBAC, Authentication & Authorization, WebSockets, Queues, CI/CD, Service Layer, Repository Pattern, Caching, Background Jobs

Professional Experience

Backend Software Engineer

Websoft Technology Pvt. Ltd.

Jan 2024 – Present

Pokhara, Nepal

- Designed and developed 15+ RESTful APIs supporting ERP, Inventory Management, Ticket Booking, Authentication, Reporting, and Administrative workflows using Laravel.
- Built scalable backend modules for enterprise ERP and Inventory Management systems by implementing modular business logic and reusable service-layer architecture.
- Engineered a concurrent ticket booking workflow using database transactions and locking mechanisms to prevent overselling and maintain transactional consistency during high-volume requests.
- Implemented secure authentication, authorization, RBAC, audit logging, and permission management across multiple enterprise modules.
- Optimized MySQL database performance through indexing, eager loading, query optimization, and relationship tuning for reporting and dashboard modules.

- Developed asynchronous background processing using Laravel Queues for notifications, scheduled tasks, exports, and long-running operations.
- Integrated third-party APIs and payment gateways while maintaining secure communication and data integrity.
- Collaborated within a five-member Agile development team, participating in sprint planning, code reviews, debugging, deployment, and production support.
- Worked with Docker, Linux, Nginx, GitHub Actions, and DigitalOcean to support deployment pipelines and production environments.
- Collaborated with frontend developers using Vue.js and React.js to design scalable API contracts and improve application performance.

Selected Projects

Enterprise ERP System

Laravel, MySQL, Livewire, Redis

- Developed enterprise modules including HR, Inventory, Finance, Attendance, and Administration.
- Designed reusable backend services to improve maintainability across multiple ERP modules.
- Implemented role-based access control and workflow automation for different organizational roles.
- Optimized reporting queries and relational database performance for large operational datasets.

Great Ticketing System

Laravel, MySQL, Docker

- Built an online ticket booking platform supporting concurrent reservations.
- Solved race conditions using database transactions and pessimistic locking.
- Integrated secure payment workflows and booking validation.
- Implemented QR-based ticket verification and booking management.

Attendance Management SaaS

Laravel, REST API, Redis

- Developed attendance tracking and employee management modules.
- Implemented configurable attendance policies supporting multiple organizations.
- Built REST APIs for mobile and web applications.
- Automated attendance reports and notifications using background jobs.

Personal Finance Management System

Python, Django, SQLite

- Developed a web-based finance management application for tracking income, expenses, budgeting, and financial reports.
- Designed relational database models for transaction categorization and reporting.
- Implemented dashboard analytics and monthly financial summaries.

Community Leadership

- **Public Relations Lead** — Code for Change Pokhara
- Organized technical workshops, bootcamps, and community events while establishing partnerships with local companies and developer communities.
- Mentored Laravel and Python workshops for university students and beginner developers.
- Promoted technical education through community engagement and knowledge sharing.

Education

Bachelor of Computer Science and Information Technology (B.Sc. CSIT)

Tribhuvan University

Pokhara, Nepal

Graduated: 2025

Achievements

- Delivered multiple enterprise ERP and SaaS applications used in production environments.
- Designed and developed 15+ RESTful APIs supporting business-critical workflows.
- Built concurrent ticket booking mechanisms ensuring transactional consistency during peak demand.

- Mentored aspiring developers through community workshops and technical sessions.
- Continuously expanding expertise in Backend Engineering, System Design, Cloud Technologies, and Software Architecture.