PRATIK RAJ PARAJULI

Software Developer (Backend)
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PROFESSIONAL SUMMARY

Backend-focused Software Developer with 2 years of professional experience building and maintaining production systems at Worldlink Communications, one of Nepal's largest ISPs. Experienced in designing microservices and REST/gRPC APIs in Node.js and PHP (Laravel, CodeIgniter) that support FTTH operations, field-agent workflows, inventory and procurement. Strong with PostgreSQL, MySQL and MongoDB, Redis and RabbitMQ, and Docker-based CI/CD, with observability through Prometheus, Grafana and OpenTelemetry. Known for turning complex operational requirements into reliable, well-documented systems.

PROFESSIONAL EXPERIENCE

Software Developer

Worldlink Communications Ltd. (via Infotech Reliable Resources Pvt. Ltd.), Technical (Indoor) Department | Nov 2024 – Present (2 years)

- Design and maintain backend services in a microservices architecture supporting FTTH operations, field-agent workflows, inventory and procurement.
- Build synchronous service-to-service communication with gRPC and REST, and asynchronous, event-driven processing with RabbitMQ for decoupled, resilient workflows.
- Use Redis for caching, distributed locking and time-bound state (e.g. 20-minute stock locks), reducing database load and preventing race conditions.
- Design relational schemas and optimize queries in PostgreSQL and MySQL; integrate with Oracle for stock (GRN) data consistency.
- Integrate network systems (OLT, ACS device management) and Firebase Cloud Messaging push notifications; secure services with JWT/OAuth and GPS-based validation.
- Implemented observability across services: metrics with Prometheus and Grafana dashboards, distributed tracing with OpenTelemetry, and centralized log servers for faster debugging and monitoring.
- Containerize services with Docker, run behind Nginx, and automate delivery with GitLab CI; validate APIs with Postman and load-test with Locust.
- Author architecture and flow documentation to align field operations, inventory, network and QA teams.

Junior Backend Developer

Void Nepal Private Limited | Mar 2024 – Jul 2024

- Developed scalable RESTful APIs to extend application functionality.
- Designed normalized database schemas and applied ACID principles; improved query performance and data consistency in MongoDB and PostgreSQL.
- Integrated JWT and OAuth for secure authentication; wrote unit and integration tests.
- Assisted with Docker setup and CI/CD pipeline maintenance, and worked with frontend teams on API integration.

TECHNICAL SKILLS

- **Backend:** Node.js, Express.js, PHP, Laravel, CodeIgniter, TypeScript
- **APIs & Architecture:** REST, gRPC, GraphQL, Microservices, System design
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, Prisma, Mongoose
- **Messaging & Infra:** RabbitMQ, Nginx, Docker, Linux, shell scripting, Firebase Cloud Messaging
- **DevOps & Tools:** Git, GitHub, GitLab CI, GitHub Actions, Postman, Locust
- **Frontend:** HTML5, CSS3, JavaScript (ES6+), React.js, Next.js, Tailwind CSS
- **Observability & Logging:** Prometheus, Grafana, OpenTelemetry, centralized log servers, distributed tracing
- **Security:** JWT, OAuth 2.0, session management

EDUCATION

Bachelor in Computer Application (BCA) – Tribhuvan University | 2021 – 2025

+2 Science – Namuna Science College | 2019 – 2021