LUIS ROBERTO ZARATE AIQUIPA

Fullstack Developer — Backend Specialist

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1 Professional Summary

Backend specialist with 6+ years of experience architecting scalable systems and microservices. Expertise in Node.js/NestJS, FastAPI, PostgreSQL, and real-time WebSocket implementations. Proven ability to solve complex authentication challenges, optimize database performance, and deliver production-grade APIs. Passionate about clean architecture, automated testing (Jest, Pytest), and building reliable systems.

2 Technical Skills

- **Backend (Advanced):** Node.js, NestJS, Express, FastAPI, PostgreSQL, MongoDB, REST APIs, GraphQL, JWT Authentication, Stripe Integration
- **Frontend (Intermediate):** React, TypeScript, Next.js, TailwindCSS, Framer Motion
- **Real-time & Streaming:** WebSockets, FastAPI Async, Binance API, Redis Caching, Pub/Sub Patterns
- **DevOps & Deployment:** Docker, Render, Vercel, Neon Database, Git, CI/CD Basics
- **Testing & Architecture:** Jest, Pytest, Unit Testing, Integration Testing, Repository Pattern, Dependency Injection, SOLID Principles

3 Professional Experience

3.1 Systems Administrator — Embutidos Nicolita

January 2024 — July 2024 — La Paz, Bolivia

- Designed and deployed custom web application for inventory management and billing automation, handling real-time stock tracking.
- Implemented digital workflow automation reducing manual reconciliation tasks by 5+ hours weekly.
- Managed system infrastructure ensuring 99.5% uptime during critical business operations.
- Trained 8+ users transitioning from legacy paper-based processes to digital platform.

3.2 Fullstack Developer (Freelance)

May 2019 — November 2023 — Fiverr — 50+ Projects — Rating: 4.8/5

- Architected and deployed 15+ production-grade applications from concept to deployment.
- Designed SaaS APIs handling complex business logic with robust error handling and data validation.
- Implemented real-time features using WebSockets, improving user engagement and data synchronization.
- Optimized database queries and implemented caching strategies, improving API response times by 50-60%.
- Maintained clean code practices, comprehensive documentation, and collaborative development standards.

4 Featured Projects

4.1 AuthHub — Enterprise Authentication System

Tech: NestJS, PostgreSQL, JWT, React, TypeScript, Vercel
GitHub: github.com/RobertPX/AuthHub-Enterprise-Authentication-System
Demo: auth-hub-enterprise-authentication.vercel.app

- Complete enterprise-grade authentication system with JWT tokens and secure cookie handling.

- Resolved critical bugs in authentication flow involving cookie persistence and JWT validation preventing dashboard access.
- Implemented role-based access control (RBAC) with granular permission management.
- Comprehensive test suite for authentication flows and JWT validation (70% code coverage).
- Auto-generated API documentation with Swagger/OpenAPI.

4.2 Real-time Crypto Monitor

Tech: FastAPI, WebSockets, Redis, PostgreSQL, Docker, Chart.js, TailwindCSS
GitHub: github.com/RobertPX/crypto-monitor
Live Demo: crypto-monitor-libe.onrender.com
- High-performance real-time cryptocurrency dashboard streaming live market data via Binance WebSocket API.
- Engineered efficient multi-client broadcast system with automatic reconnection and exponential backoff.
- Implemented hybrid storage architecture (Redis + in-memory fallback) for resilient persistence.
- Asynchronous processing enabling 1000+ concurrent connections with sub-200ms latency.
- Pytest suite with 70% code coverage validating WebSocket reliability.

4.3 SaaS Subscription Management API

Tech: FastAPI, PostgreSQL, Stripe API, Celery, Redis, Docker, Pytest
GitHub: github.com/RobertPX/saas-subscription-api
- Enterprise-grade SaaS platform for subscription management with complete Stripe integration.
- Implemented secure payment processing with Stripe Webhooks handling subscription lifecycle events.
- Asynchronous task processing using Celery for invoicing, notifications, and billing cycles.
- Repository Pattern architecture ensuring clean separation of concerns and testability.
- Full test coverage including Stripe webhook handling with test mode verification.

4.4 Professional Portfolio Website

Tech: Next.js 15, TypeScript, TailwindCSS, Framer Motion, Vercel
Live: portafolio-drab-tau.vercel.app
- High-performance portfolio optimized for SEO and user experience (Lighthouse 95+).
- Responsive design with dark/light mode and Framer Motion animations.
- Showcases technical projects with live links and detailed descriptions.

5 Education

5.1 Systems Engineering

Universidad Privada Franz Tamayo — *2017 — 2024*
- Specialization in Software Architecture and Distributed Systems Design
- Final Project: Web platform for invoicing and inventory management (PHP + Python)
- Advanced coursework in database design, API architecture, and system scalability

6 Certifications & Credentials

- **Developing Cloud Native Applications** — edX (2023)
- **Languages:** Spanish (Native) — English (B2)

7 Additional Information

- **GitHub Portfolio:** github.com/RobertPX — Production-grade projects with comprehensive documentation
- **Focus Areas:** Complex authentication flows, database optimization, real-time systems
- **Open To:** Full-time Remote, Contract Work, Startup Opportunities