Ralph Lozada

Software Engineer

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Summary

Performance-focused Software Engineer with 7+ years of professional experience specializing in robust backend architecture with Go (Golang) and Node.js (Fastify). Proven track record of independently managing production cloud infrastructure on AWS (EC2, S3, RDS, IAM) and optimizing relational databases using PostgreSQL, optimizing PostgreSQL databases and implementing Redis caching strategies to reduce database query latency by over 80%. Adept at building scalable, high-concurrency solutions with an emphasis on code efficiency and system reliability.

Work Experience

Senior Backend Developer

Zip | Makati City, Philippines (Remote) | August 2026 – Present

- Architect, build, and maintain high-concurrency server-side logic and RESTful APIs using TypeScript and Node.js, ensuring robust performance, scalability, and strict security standards across core systems.
- Design and optimize PostgreSQL database schemas, complex queries, and Redis caching strategies to minimize latency and improve overall data storage efficiency.
- Collaborate cross-functionally with frontend developers, product managers, and UI/UX designers to translate requirements into scalable features while driving automated testing and peer code reviews.
- Lead production troubleshooting, system debugging, and technical documentation efforts to continuously refine engineering processes and reduce technical debt.

Senior Full Stack Engineer

Emporia Group | Muntinlupa City, Philippines (Remote) | July 2026 – Present

- Architected and delivered reliable, scalable backend applications using Go (Golang) and associated frameworks, translating complex business requirements into high-quality technical solutions.
- Drove continuous improvement across the full software stack by optimizing frontend UI/UX components based on end-user needs and collaborating closely with project stakeholders.
- Maintained robust system stability by executing comprehensive code testing practices, resolving deep-seated technical issues, and participating actively in on-call rotations and agile Scrum workflows.

Senior Software Engineer

Innovative Research and Intelligent Solutions | Metro Manila, Philippines (Remote) | May 2024 – June 2026

- Managed and optimized production cloud environments on AWS (EC2, S3, RDS), successfully identifying infrastructure bottlenecks to improve full-stack application stability and system speed by 25%.
- Drove end-to-end full-stack development as the primary engineer, delivering critical backend logic updates with Fastify (Node.js) and refining frontend user interfaces using React.
- Refactored complex legacy modules into clean, reusable code libraries to minimize codebase technical debt and accelerate future feature deployment timelines.

Cloud Engineer

Senti Techlabs Inc. | Taguig City, Metro Manila, Philippines (Remote) | March 2023 – May 2024

- Engineered scalable backend microservices using Fastify (Node.js) while strictly adhering to OpenAPI Specifications to ensure robust, standardized contract documentation.
- Designed, developed, and published shared modules and reusable internal libraries, reducing subsequent feature development turnaround times by 30%.
- Maintained full-lifecycle ownership of core system functionalities, managing everything from initial architectural design through deployment, debugging, and resolving deep-seated legacy defects.

Full Stack Developer
HesedovationPH | Singapore (Remote) | March 2019 – March 2023

- Designed, built, and maintained high-efficiency, concurrent backend logic using Go (Golang) over a four-year period to guarantee long-term architectural stability.
- Developed responsive, user-facing interfaces using Vue.js and JavaScript/TypeScript to ensure seamless frontend-to-backend API integration.
- Utilized Docker to containerize core applications, ensuring environment consistency between local development setups and manual Linux server deployments via PuTTY.
- Partnered closely with cross-functional stakeholders to translate business requirements into functional code while authoring core technical guides to support system adoption.

Technical Skills

Languages & Frameworks: Go (Golang), Node.js, Fastify, TypeScript, JavaScript (ES6+), React, Vue.js, Tailwind CSS
Databases & Caching: PostgreSQL, Redis, MySQL
Cloud & Infrastructure: AWS (EC2, S3, RDS, IAM), Docker, Linux (Ubuntu/Debian)
Tools & Architecture: Git, RESTful APIs, Microservices, Technical Documentation, Agile/Scrum