Ralph Lozada

Software Engineer

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Visa Status: Requires Visa / Eligible for EU Blue Card (IT Specialist) | Open to Relocation

Summary

Performance-focused Software Engineer with over **7 years of professional experience**, including a **4-year foundation** in building and maintaining backend systems with **Go (Golang)**. Highly proficient in the full software development lifecycle, specializing in **Node.js (Fastify)**, **TypeScript**, and **RESTful API** development with an emphasis on code efficiency and system reliability. Experienced in managing cloud infrastructure on **AWS Amazon Web Services (EC2, S3, RDS, IAM)**, with a proven ability to independently maintain production environments and optimize relational databases using **PostgreSQL**. Strong advocate for secure, **performance-driven** development, with practical experience implementing **RBAC** and managing manual deployments in **Docker-virtualized Linux** environments.

Experience

Senior Backend Developer
Zip | Makati City, Philippines | August 2026 - Present

- **Server-Side Architecture & APIs**: Design, develop, and maintain high-performance server-side logic, RESTful APIs, and scalable data storage solutions.
- **Clean Code & Quality Standards**: Write clean, maintainable, and efficient code following engineering best practices and industry design patterns.
- **Cross-Functional Collaboration**: Collaborate closely with frontend engineers, product managers, and designers to define and deliver high-quality features.
- **Database & Caching Optimization**: Implement and optimize database schemas, complex queries, and caching strategies to maximize overall throughput and performance.
- **System Performance & Security**: Ensure application stability, security, and scalability across production systems.
- **Testing & Code Reviews**: Write automated tests and actively participate in peer code reviews to maintain robust software quality and system reliability.
- **Production Debugging & Support**: Troubleshoot, debug, and resolve complex production issues to ensure continuous uptime.
- **Technical Documentation & Processes**: Contribute to technical documentation and continuous software engineering process improvements.

Senior Full Stack Engineer
Emporia Group | Muntinlupa City, Philippines (Remote) | July 2026 – Present

- **Senior-Level Engineering & Core Backend:** Deliver end-to-end full stack software engineering services with a primary focus on designing, building, and scaling high-performance backend systems using Go (Golang) and associated technologies.
- **System Lifecycle Management:** Manage the continuous enhancement, manual/automated deployment, testing, and long-term maintenance of production applications to ensure reliable, scalable, and high-quality software solutions.
- **Technical Problem Solving:** Exercise independent technical judgment to analyze complex business requirements, resolve deep-seated system issues, and optimize application performance across the software stack.
- **Stakeholder & Team Alignment:** Collaborate directly with project stakeholders, product managers, and cross-functional teams to translate strategic goals into reliable technical architectures and actionable project deliverables.

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

- **Infrastructure Management (AWS)**: Managed and maintained production environments on **Amazon Web Services (EC2, S3, RDS)**, ensuring high availability and performance for a full-stack application built with **Fastify (Node.js)** and **React**.
- **Solo Development Lifecycle**: Acted as the primary engineer responsible for the end-to-end maintenance of core modules, managing everything from backend logic updates to frontend UI enhancements.
- **Self-Regulated Quality Assurance**: Established a rigorous personal code review and testing workflow to maintain high standards of code quality, readability, and performance in the absence of a peer-review team.
- **API Maintenance & Standards**: Updated and expanded backend services, ensuring seamless integration and clear documentation for the existing codebase.
- **Performance Optimization**: Diagnosed and resolved technical bottlenecks within the **AWS** infrastructure and the application layer, implementing fixes that improved system stability and speed.
- **Modular Refactoring**: Developed reusable code libraries and optimized existing modules to streamline future updates and reduce the complexity of the legacy system.

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

- **End-to-End Module Ownership**: Owned the full software development lifecycle (SDLC) for core system functionalities, from initial architectural analysis and design to deployment and long-term maintenance.
- **API Standardization**: Engineered robust backend services using the **Fastify** framework, strictly adhering to **OpenAPI Specifications** to ensure highly documented and scalable API contract.
- **Self-Regulated Quality Standards**: Maintained a disciplined solo workflow by performing rigorous self-directed code reviews and testing to ensure all production code remained clean, readable, and highly efficient.
- **System Evolution**: Proactively identified and resolved deep-seated technical issues, performing critical upgrades and debugging to modernize existing legacy modules.
- **Modular Architecture**: Optimized the codebase by developing reusable libraries and shared modules, significantly reducing future development by at least 30% and improving system maintainability.

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

- **Long-term System Evolution (Go)**: Engineered and maintained core software programs using **Go (Golang)** over a 4-year period, focusing on high-efficiency backend logic and long-term system stability.
- **Modern Frontend Architecture**: Developed responsive user interfaces using **Vue.js**, **TypeScript**, and **JavaScript**, ensuring seamless integration with complex backend services.
- **Linux Server Administration**: Managed production deployments manually via **PuTTY**, handling server-side configurations, file transfers, and service restarts within **Linux** environments. opt
- **Containerization**: Utilized **Docker** to containerize applications, ensuring environment consistency between local development and the manual deployment process.
- **Rigorous Manual Testing**: Designed and executed comprehensive manual testing protocols to evaluate new features, identifying and resolving bugs before they reached the production server.
- **Operational Practicality**: Evaluated the feasibility of new programs and managed the end-to-end upgrade of existing systems to meet evolving business requirements.
- **Cross-Functional Collaboration**: Acted as the technical lead in discussions with stakeholders to translate business needs into functional code.
- **User Training & Documentation**: Authored technical guides and conducted training sessions for users to ensure successful adoption of newly deployed software tools.

Skills

- **Languages**: Go (Golang), JavaScript (ES6+), TypeScript, HTML5, CSS3
- **Backend & APIs**: Node.js, Fastify, RESTful API Design, OpenAPI (Swagger), Bun ORM
- **Frontend Frameworks**: Vue.js, React.js, Angular, Ionic, Alpine.js, TailwindCSS
- **Infrastructure & Cloud:** AWS Amazon Web Services (EC2, S3, RDS, IAM), Docker, Linux (Ubuntu/Debian)
- **Tools & Deployment**: DBeaver, Git, PuTTY/SSH, FileZilla (FTP/SFTP), Postman
- **Databases**: PostgreSQL, MySQL, Redis

Education

Bachelor of Science in Information Technology June 2015 - May 2022
University of St. La Salle - Bacolod

Language

English - Fluent