RALPH LOZADA

Software Engineer | Backend & Full Stack

Bacolod City, Philippines | +63 948 592 9813 | ralph.lozada@outlook.com | linkedin.com/in/r-lozada

Visa Status: Requires Australian Employer Sponsorship (e.g., Subclass 482 / 186) | Open to Relocation

Professional Summary

Performance-focused Software Engineer with over 7 years of professional experience, specialising in a 4-year foundation of building and scaling production backend systems with Go (Golang). Proven track record of optimising PostgreSQL databases and implementing Redis caching strategies to reduce database query latency by over 80% under high concurrency. Proficient in the full software development lifecycle (SDLC), with expertise in Node.js (Fastify), TypeScript, RESTful API design, and cloud deployments on AWS (EC2, S3, RDS, IAM). Demonstrated success in optimising relational databases, managing containerised Linux environments, and implementing secure Role-Based Access Control (RBAC) architectures.

Work Experience

Senior Backend Developer

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

- Core Backend & API Architecture: Design, build, and maintain scalable server-side logic and RESTful APIs, delivering high-performance and resilient backend services.
- Database Optimization & Caching: Architect and optimize relational database schemas, complex SQL queries, and Redis caching strategies to minimize query latency and enhance data throughput.
- Cross-Functional Collaboration & Delivery: Partner closely with frontend engineers, product managers, and designers to define technical requirements and deliver end-to-end features aligned with business goals.
- Quality Assurance & Engineering Standards: Enforce rigorous code quality by writing comprehensive automated test suites, leading code reviews, conducting production troubleshooting, and maintaining system documentation.

Technologies Used:

Senior Full Stack Engineer

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

- Senior-Level Engineering & Core Backend: Architect, deliver, and scale high-throughput backend services using Go (Golang) and Node.js, focusing on API performance and long-term system maintainability.
- System Lifecycle Management: Manage the continuous enhancement, containerised deployment, testing, and maintenance of production applications on Docker-virtualised environments.
- Technical Problem Solving & Optimisation: Conduct deep-level technical diagnosis and database query refactoring, improving core service responsiveness and resolving complex bottlenecks.
- Stakeholder & Team Alignment: Collaborate directly with project stakeholders and cross-functional teams to translate business requirements into resilient system architectures and actionable deliverables.

Technologies Used: Go (Golang), PostgreSQL, Redis, Docker, Linux, AWS, RESTful APIs

Senior Software Engineer

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

- Infrastructure Management (AWS): Maintained production cloud environments across AWS services (EC2, S3, RDS, IAM), delivering high availability for full-stack applications built with Fastify and React.
- End-to-End Module Delivery: Primary engineer responsible for continuous feature development and maintenance across core modules, managing backend logic and API contracts.

- Self-Regulated Quality Assurance: Established a disciplined code review workflow, comprehensive unit testing, and structured logging to reduce production bugs in a fast-paced setting.
- Modular Refactoring & Performance: Standardised legacy modules into reusable software libraries, significantly reducing codebase complexity and streamlining onboarding.

Technologies Used: Fastify, React.js, AWS (EC2, S3, RDS, IAM), TypeScript, PostgreSQL, RESTful APIs

Cloud Engineer

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

- End-to-End Module Ownership: Owned the full SDLC for core system microservices, from architectural analysis and API design to deployment and ongoing maintenance.
- API Standardisation: Engineered robust backend APIs with Node.js and Fastify, strictly adhering to OpenAPI (Swagger) specifications for clear client integration.
- Modular Architecture: Modernised legacy backends by building reusable core packages, cutting redundant development effort by 30% across projects.

Technologies Used: Node.js, Fastify, OpenAPI (Swagger), GCP

Full Stack Developer

HesedovationPH | Singapore (Remote) | Mar 2019 – Mar 2023

- Long-Term System Evolution (Go): Designed and maintained performant server-side microservices using Go over a 4-year tenure, ensuring platform stability and fault tolerance.
- Modern Frontend Architecture: Developed responsive user interfaces with Vue.js, TypeScript, and JavaScript, integrating seamless asynchronous communication with complex APIs.
- Linux Server Administration & Containerisation: Configured and managed Linux production environments (Ubuntu/Debian) using Docker containers and structured SSH deployments.
- Cross-Functional Collaboration & Documentation: Acted as technical point of contact with stakeholders and authored detailed user documentation to ensure effective tool adoption.

Technologies Used: Go (Golang), Vue.js, JavaScript, Docker, Linux, MySQL, PostgreSQL, Git, SSH, RESTful APIs

Technical Skills

Languages & Runtimes: Go (Golang), Node.js, TypeScript, JavaScript (ES6+), HTML5, CSS3
Backend & DB: Fastify, RESTful APIs, OpenAPI (Swagger), PostgreSQL, Redis, MySQL, Bun ORM / GORM
Cloud & DevOps: AWS (EC2, S3, RDS, IAM), Docker, Linux (Ubuntu/Debian), Git, SSH, Postman, DBeaver
Frontend & Architecture: Vue.js, React.js, TailwindCSS, Microservices, System Architecture, RBAC, API Documentation

Education

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