

de Guzman, Ricardo Jr. D.

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Work Experience:

- **Karga Express Intelligence System, Inc** **May 2026 – Present**
Head of Product
 - **Product Vision & Operations:** Own and execute the comprehensive product roadmap to transition operations from fragmented, legacy spreadsheet models into highly scalable, automated internal systems.
- **IFELSE Philippines, Inc.** **June 2025 – Present**
Senior Full Stack Developer
 - **Cross-Project Technical Lead:** Orchestrated architectural support for the company's flagship products and key global clients (including **LG OTA**), ensuring system stability and high-performance delivery.
 - Engineered and deployed **private cloud infrastructure**, optimizing for developer autonomy and high-repetition deployment cycles.
 - **Institutional Ecosystem Synergy:** Acted as a continuous technical anchor across interconnected ecosystems (PCI, Seaversity, Pisopay, KargaX) since 2018, establishing deep operational trust and continuity.
- **IFELSE Philippines, Inc.** **September 2024 - June 2025**
Full Stack Developer (Contractual)
 - Collaborated with an in-house embedded software engineer to update, debug, and enhance the LG Energy Solution **ESS Battery (Energy Storage System) software**, focusing on Device Management Client (DMC) and Command-Line Interface (CLI) tools across three generations: Gen 1 and Gen 2 (Windows-based) and Gen 3 (Linux-based), utilizing **C++**.
 - Deployed multiple web applications on **AWS**, leveraging **NestJS (backend)** and **NextJS (frontend)** tech stacks.
 - Partnered with **CTO** to overhaul existing build pipelines for improved container/image efficiency, resulting in faster and more reliable builds and deployments.
 - Led the optimization of **AWS** cloud infrastructure, focused on cost-effectiveness and resource efficiency by reprovisioning ECS clusters, enforcing strict security policies, and implementing optimized IAM permissions.
 - Developed a proof of concept (POC) for an enhanced **LG** eCommerce 3D/AR experience, compatible with the entire Apple ecosystem (iOS, iPadOS, macOS), incorporating features such as annotations, animations, and video integration for dynamic 3D models.
 - Co-authored the planning and migration of LG's OTA platform **AWS cloud** infrastructure to IFELSE's account, configuring secure, scalable ECS clusters.

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- **Seaversity , Inc.** **April 2021 – March 2025**
Chief Technology Officer
 - **Cross-Project Technical Lead:** Orchestrated architectural support for the company's flagship products and key global clients (including **LG OTA**), ensuring system stability and high-performance delivery.
 - Oversee all technical operations, managing automations (Shell scripting) and containerized applications to enhance resource utilization and operational efficiency.
 - Provision and maintain servers (on-premises and **AWS**) for various company needs.
 - Designed and implemented robust **CI/CD** pipelines using **GitHub Actions**, optimizing build and deployment processes for various applications.
 - Enhanced application performance and scalability through streamlined deployment strategies and efficient version control mechanisms.
 - Designed a **recursive automation strategy** using Shell scripting and containerization, reducing manual server maintenance by **70%**.
- **PCI Tech Center** **December 2021 – June 2022**
DevOps Engineer / Consultant
 - Set up **AWS infrastructure** for new clients, improving **product planning** and **decision-making processes**.
- **Philippine Cyber Institute, Inc.** **August 2018 – April 2021**
Software Engineer, Game Developer, QA, DevOps Engineer
 - Migrated and maintained all PCI and Seaversity web applications on AWS cloud servers.
 - Utilized **AWS** services (EC2, S3, CloudFormation, CI/CD with CodePipeline, CodeBuild, Elastic Beanstalk) to design and implement a robust cloud infrastructure for new client onboarding, meeting performance and security requirements.
 - Developed small-scale intranet web app using Raspberry Pi and router (PCI's Rover).
 - Created games, VR, and AR experiences using Unity 3D.
 - Developed museum attractions using Raspberry Pi (Python) and Arduino projects.
 - Created AR photobooth and body tracking (motion capture) applications using Kinect in Unity3D.
- **Freelance Developer / Project-based** **September 2015**
Developer (Software / Game), DevOps Engineer
 - Developed and deployed a VIP customer management system for New Era Cap: New Era Hats & Apparel Philippines (<https://vip.neweracap.ph/>) - 2023
 - Created a face recognition attendance system using OpenCV in Unity3D.
 - Developed "Bida Juan," a historical RPG game (<https://youtu.be/SViXTIFarOw>)
 - Integrated movement systems in Unity3D using Arduino microcontrollers.

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- Developed interactive wall games using Kinect and Unity3D.
 - **Cyberwhiz Innovation & Solutions Co.** **August 2015 – November 2017**
Software Developer
 - Integrated SMS functionality for a school attendance system using Unity3D.
 - Developed an AR coloring book and a prism hologram fighting game using Unity3D.
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Technical Skill:

Product & Strategy: Product Roadmap Design, Agile MVP Prototyping, Investor Pitching, Logistics Automation, Operational Data Structuring, Cash Cycle Workflow Optimization.

AI & LLM Operations: Local LLM Orchestration (Ollama, vLLM), Model Quantization, Prompt Engineering (Chain-of-Thought, System Prompting), Retrieval-Augmented Generation (RAG) Patterns.

Infrastructure & DevOps: AWS (VPC, EC2, ASG, ALB, ElastiCache, RDS, CloudFront, EFS, CloudFormation), Docker, Podman, Proxmox (Hypervisors), Infrastructure as Code (Terraform), CI/CD (GitHub Actions, Jenkins, AWS CodePipeline).

Systems Administration: Advanced UNIX/Linux Administration (Ubuntu, Debian, RHEL, CentOS, AlmaLinux, Rocky Linux, Alpine), Bash/Shell/Fish Scripting, Security Patching, SELinux Policies.

Databases: PostgreSQL, MySQL/MariaDB, SQLite, MongoDB, Redis, Memcached.

Web & Software Development: NestJS, React, Next.js, Remix, Vue, Nuxt.js, SvelteKit, C++, Python.

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Independent Infrastructure Lab (Home Lab)

Self-Hosted Ecosystem: Architected and maintained a home server hosting 20+ services including Immich (media), Jellyfin, and TrueNAS, managed via Docker and Tailscale for secure mesh networking.

Network & Security: Implemented custom DNS servers and Cloudflare Tunnels for secure exposure of web services, managing SSL/TLS termination and automated backup strategies.

Integrated Ollama and vLLM into the home lab environment to provide local AI API access for home automation tasks.

Educational Attainment:

Tertiary: Eulogio "Amang" Rodriguez Institute of Science and Technology
(Bachelor of Science in Computer Science) - 2013- 2017

Achievements:

NASA SPACE APPS CHALLENGE 2018

GLOBAL NOMINEE in Virtual Space Exploration | Makati Branch champion

Developed Mars2Earth VR