

JOHN EMMANUEL C. CALDERON

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TECHNICAL SKILLS

- **Languages:** Java, Python, C#, JavaScript, TypeScript
- **Frameworks:** React.js, Next.js, Laravel, Flutter, React Native
- **Developer Tools:** Git, GitHub, Figma, Canva, Notion, VSCode, Android Studio
- **Databases:** MySQL, SQLite, Firebase, MongoDB
- **DevOps & Cloud Infrastructure:** Linux (Ubuntu, Fedora), AWS (S3, EC2), OVH, Laravel Forge, Nginx, Jenkins, GitHub Actions, Grafana, Prometheus, Node Exporter, Blackbox Exporter, UptimeKuma, Tailscale, ZeroTier, LXC, Docker, Cloudflared, Cpanel

PROFESSIONAL EXPERIENCE

Digital Benefits PTE. LTD. | Singapore

AI Operations | Intern

July 2026 - Present

- Resolved core application bugs across internal client codebases, diagnosing root causes to improve overall system stability.
- Designed end-to-end client websites using GoHighLevel (GHL) and integrated responsive workflows tailored to operational requirements.
- Optimized system infrastructure and integrated Sentry monitoring with internal AI services to deliver automated project telemetry and alerting.

Mara Linux and Business Solutions, Inc. | Quezon City, Metro Manila

DevOps Engineer Apprentice | Part-time

April 2026 – July 2026

- Led emergency forensic containment on an exploit involving a compromised tenant cPanel account routing 90,000+ spam emails; purged Exim queues, implemented CSF firewalls to mitigate source IP blocks, and successfully negotiated domain reputation restoration with Namecheap upstream providers.
- Architected a workload migration strategy moving local development environments from DigitalOcean VPS to an on-premise Ubuntu Server LXC container environment utilizing VitoDeploy, optimizing cloud resource distribution for staging and production targets.
- Designed and executed the physical datacenter rack layout for unified on-premise network components (NVR, UNV Switch, Smartbox, and IPBX hardware).

DevOps Engineer | Intern

January 2026 – April 2026

- Designed and deployed containerized web applications on AWS EC2 using Docker Compose; engineered an automated CI/CD pipeline using GitHub Actions for seamless local-to-production deployment.
- Conducted vulnerability assessments using Kali Linux, Burp Suite, and WPScan; successfully identified and documented a WAF bypass exploit involving brute-force password detection on target environments.
- Provisioned bare-metal Ubuntu Servers and established process persistence for media servers (MediaMTX) by migrating legacy background tasks (nohup) into robust systemd services.

PROJECT

Rentabahay

June 2026

Lead Developer

- Developed a rental management system platform for managing tenants, utility billing, and payment records
- Built automated billing workflows, printable receipts, and utility analytics dashboards
- Designed a normalized MySQL relational database schema supporting tenant management, billing, and historical payment records.

SignMaster – AI Powered Filipino Sign Language Learning Platform (Capstone Project)

February 2025 – November 2025

Lead Developer

- Directed end-to-end development of AI-driven Filipino Sign Language (FSL) platform bridging communication gaps for SNED students at Amang Rodriguez Elementary School
- Engineered computer vision pipeline using OpenCV, MediaPipe, and TensorFlow achieving real-time FSL gesture recognition from webcam and mobile inputs
- Collaborated with FSL educators via Agile methodology yielding 4.75/5 user evaluation (Strongly Agree) across accuracy, usability, and engagement metrics

EDUCATION

STI College Caloocan | Caloocan City, Metro Manila

September 2022 – July 2026

Bachelor of Science in Information Technology | GWA 1.43

Cum Laude

ICTE Symposium “Best Capstone” Candidate

1st Runner Up in STI Codefest Local Competition 2024

CERTIFICATIONS

- LFS162: Introduction to DevOps and Site Reliability Engineering – The Linux Foundation
- LFS101: Introduction to Linux – The Linux Foundation
- AWS Cloud Quest: Cloud Practitioner – Amazon Web Services