Marvin James A. Erosa

Makati City, NCR, 1214 | https://mj.erosa.page | +639274763661

linkedin.com/in/marvinjameserosa | marvinjameserosa@gmail.com | github.com/marvinjameserosa

Work Experiences

Tomeku — Quezon City
Principal Software Engineer (Freelance) — Jun. 2025 – Present
- Architected end-to-end technical solutions for B2B clients by translating business requirements into scalable system designs, managing all vendor and stakeholder communications.
- Sets up and configures complete IT infrastructures (MS Office 365 with Okta, Google Workspace, Jira) for new client projects like CCTVs and Printers, ensuring proper connectivity and functionality from the ground up.
- Engineered and maintained a resilient network infrastructure to support high-throughput data ingestion for a real-time logistics platform.

Accenture — Madaluyong City
Package App Development Associate Intern — Jul. 2024 – Sep. 2024
- Automated data processing tasks and streamlined project workflows by developing solutions within the Microsoft Power Platform (Power BI, Power Apps, Power Automate).
- Executed comprehensive testing strategies to validate application security and ensure the seamless integration of tools and data flows across the Office 365 environment.
- Developed backend connections to Azure SQL Databases for Power Platform applications, implementing data validation and cleansing rules within Power Automate to ensure high data integrity.

Rhenus Logistics — Muntinlupa City
IT Infrastructure Specialist Intern — Aug. 2025 – Dec. 2023
- Ensured the reliability and performance of LAN/WAN infrastructure to support continuous logistics operations and time-sensitive data transfers across the organization.
- Managed user lifecycle and system access controls within Active Directory and Okta, maintaining operational security and data governance standards.
- Managed the full IT asset lifecycle, maintaining meticulous inventory records to ensure operational readiness and support capacity planning.

Leadership & Activities

Arduino Day Philippines — Sta. Mesa, Manila
Co-Organizer — Nov. 2024 – Present
- Orchestrated the end-to-end execution of a national tech conference, directing operations for 1,000+ attendees and managing relationships with over 50 corporate and community partners.
- Architected and deployed the event's core technical infrastructure, including a custom registration website and a Python-based email automation system to successfully process 2,000+ sign-ups.

CyberPH — Sta. Mesa, Manila
Co-Founder and VP for Strategic Planning — Apr. 2025 – Present
- Architected the organization's strategic roadmap, defining key technology partnerships (e.g., PLDT Innolabs) and establishing operational policies to guide security research and community events.
- Spearheaded the planning and execution of all community-facing events, including technical webinars and workshops that engaged over 100 attendees per session.

BASE Philippines — Makati City
Open Source Developer Advocate — Jun. 2025 – Present
- Served as a technical subject matter expert during community events and hackathons, guiding developers and troubleshooting project builds to foster ecosystem growth.
- Developed and delivered a curriculum of technical workshops on blockchain development, educating the open-source community on core concepts and decentralized application (dApp) tooling.

TEDxPUP — Sta. Mesa, Manila
Chief of Staff — Sep. 2025 – Present
- Translated the licensee's vision into an actionable strategic plan, defining team structures, key milestones, and operational workflows for the organization.
- Designed and implemented a streamlined onboarding process for all new members, improving team integration and accelerating operational readiness for event execution.

PUP Hygears — Sta. Mesa, Manila
Programming Team Leader — Oct. 2021 – Sep. 2025
- Led the data and telemetry engineering for an international competition, while making significant hands-on contributions to the design and implementation of the electric and vehicle's electrical and mechanical systems.
- Engineered an autonomous driving agent within the CARLA simulation environment for a separate international competition, processing complex simulated sensor data to inform vehicle control logic.
- Led the team to achieve finalist status in multiple national technology competitions, including Hackfest 2024 and the Machine Design Competition 2024.
- Managed the full project lifecycle for a university-wide Air Quality Monitoring System, deploying sensors and

building the operational dashboard using a Flask and React stack.
- Designed and led a full-stack development bootcamp for junior members, mentoring them on a complete workflow from version control (Git) to deployment using a Node.js, Express, and React stack.

Google Developer Groups on Campus PUP   Sta. Mesa, Manila
Cybersecurity Lead   Aug. 2024 - Sep. 2025
- Engineered the entire technical infrastructure for a national CTF competition serving 100+ participants, deploying challenges across a hybrid-cloud environment including Vercel, AWS, and a self-hosted Proxmox server tunneled via Cloudflare for security and high availability.
- Designed and delivered cybersecurity workshops to a multi-university audience, training students from various institutions on topics ranging from foundational shell scripting to advanced network analysis.
- Invited as a resource speaker by multiple universities and student organizations to present on topics such as secure coding practices and critical infrastructure security.

PUP Microsoft Student Community   Sta. Mesa, Manila
PowerBI Lead   Aug. 2024 - Sep. 2025
- Spearheaded the Power BI learning initiative for the student community, developing all training materials and leading hands-on technical workshops.
- Trained over 50 students in data visualization best practices, enabling them to build their own dynamic dashboards for academic and personal projects.

ICPEP Student Edition - PUP Manila   Sta. Mesa, Manila
President and Founder   Oct. 2025 – Sep. 2025
- Founded the university chapter and grew it to over 200 active members, securing a partnership with GitHub that provided 100+ professional certifications to students.
- Co-organized large-scale, multi-university tech events, leading the design of competitive programming challenges and managing outreach campaigns to drive student engagement across the region.
- Designed and led a full-stack development bootcamp for junior members, mentoring them on a complete workflow from version control (Git) to deployment using a Node.js, Express, and Next.js stack.

DOST - START   Taguig City
Partnership Lead   Jan. 2025 – Sep. 2025
- Forged and managed strategic partnerships with external companies and community organizations, securing sponsorships and in-kind resources to support key program initiatives.
- Spearheaded the development and deployment of a new organizational website to solve a critical resource gap, directly improving the efficiency of event registration and operations.

Education

Polytechnic University of the Philippines   Sta. Mesa, Manila
Bachelor of Computer Engineering Specializing in Big Data
- Awards & Competitions:
    - Most Outstanding Computer Engineering Student of the Year
    - Thesis Project: Champion, NextGen StartUp Challenge 2025; Semi-Finalist, packetHACKS
    - Champion, SEEN National Capture-the-Flag Competition
    - Gawad Pagkilala 2024 Awardee for Meritorious Contributions to the University
- Academic Honors & Scholarships:
    - Consistent President's Lister
    - DOST-SEI S&T Undergraduate Scholar
    - DataCamp Scholar (Completed multiple certifications in data science and analytics)

AMA Computer Learning Center   Makati City
Graduated with Highest Honor
Fort Bonifacio High School   Makati City
Graduated with High Honor

Skills & Technologies

Cloud & Infrastructure
- Cloud Platforms: AWS, Azure, Google Cloud
- Operating Systems: Linux (Ubuntu, Debian, RedHat), Windows Server
- Virtualization & Hosting: Proxmox VE (Server Management, High-Availability), Self-Hosted Servers

Automation & DevOps
- Languages: Python (Pandas, Flask), PowerShell, Bash
- Version Control: Git & GitHub
- CI/CD & Deployment: GitHub Actions, Vercel, Render, CI/CD Principles
- Workflow Automation: Microsoft Power Platform (Power Automate, Power Apps), Jira

Data & Databases
- Data Processing & ETL: Data Cleansing & Transformation, ETL Principles
- Databases: Google Cloud SQL, Azure SQL, Relational Database Concepts
- NoSQL: MongoDB, Firebase Realtime Database

- Data Visualization: Microsoft Power BI (Power Query, DAX)

Networking & Security
- Infrastructure: LAN/WAN Architecture, Firewall Principles (Cisco, FortiNet), Cloudflare
- Identity & Access (IAM): Microsoft Active Directory, Okta
- Protocols & Services: TCP/IP, DNS, DHCP, Network Analysis

Hardware & IoT
- System Integration: IoT/RFID System Architecture & Deployment
- Hardware Design: PCB Design (KiCad, Altium)
- CAD: AutoCAD, REvit, Fusion 360
- AI Simulation: CARLA Simulator (Autonomous Driving Agents)

Relevant Certifications
- Data Engineer Associate Certification
- CCNA: Switching, Routing, and Wireless Essentials
- [See LinkedIn to learn more]