

PAOLO DOMINIC A. ZAFRA

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SUMMARY

Computer Engineering graduate with hands-on experience building and deploying cloud-based systems using AWS, Terraform, and CI/CD. Experienced in designing serverless architectures, securing cloud infrastructure, and solving real-world issues such as cost optimization and system reliability. Seeking to contribute to scalable and efficient cloud environments.

EDUCATION

National University Fairview

Bachelor of Science in Computer Engineering

- Computer Engineering Dean's Lister (2021-2024)

Quezon City, Metro Manila

A.Y. 2021-2025

EXPERIENCE

Dr. Jose N. Rodriguez Memorial Hospital and Sanitarium

Information Technology Support Intern

- Troubleshoot hardware, software, and network issues to support daily operations
- Assisted in maintaining system reliability in a fast-paced healthcare environment
- Collaborated with staff to resolve technical issues and improve workflow efficiency
- Supported documentation processes, improving consistency in system-related records

Caloocan City, Metro Manila

Apr 2025 – Jun 2025

PROJECTS

Cloud Resume Project (AWS, Terraform, CI/CD)

Personal Project | 2026

- Designed and deployed a **serverless cloud architecture** using AWS (S3, CloudFront, API Gateway, Lambda, DynamoDB)
- Built a dynamic visitor tracking system with **duplicate filtering and cooldown-based logic**
- Secured infrastructure using **IAM and Origin Access Control (OAC)** to restrict direct S3 access
- Implemented **Infrastructure as Code (Terraform)** with remote state for consistent deployments
- Developed **CI/CD pipelines using GitHub Actions with OIDC authentication** for secure, automated deployment
- Investigated and resolved **unexpected AWS cost issues related to WAF and resource lifecycle**
- Designed system with **scalability, cost-efficiency, and separation of concerns**
- Reduced unnecessary AWS cost after identifying WAF misconfiguration

Wi-Vou: Wi-Fi Voucher Dispenser System (Best Embedded Systems Project)

Embedded Systems Project | 2025

- Developed an embedded system using ESP32 for automated Wi-Fi voucher distribution
- Integrated hardware and software for real-time user interaction
- Designed backend logic for tracking user registration and voucher allocation
- Built a web interface for monitoring and control
- Awarded **Best Embedded Systems Project**

Sumobot Competition Robot (1st Runner-Up)

Robotics Project | 2024

- Designed and developed an autonomous sumobot with sensor-based navigation and control
- Achieved **1st Runner-Up**, demonstrating effective system design and optimization

SKILLS

Cloud and DevOps:

- AWS (S3, CloudFront, Lambda, API Gateway, DynamoDB, IAM, CloudWatch)
- Terraform (Infrastructure as Code)
- GitHub Actions (CI/CD)

Programming: Python, JavaScript, C++

Web Development: HTML, CSS, JavaScript

Tools & Systems: Git, Linux (basic), REST APIs, IAM, CloudWatch, OIDC