

# Rizelle B. Bautista

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[AWS Developer Associate](#) • [AWS AI Practitioner](#) • [AWS Cloud Practitioner](#) • [CompTIA ITF+](#)

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## PROFESSIONAL SUMMARY

Cloud Engineer with proven hands-on experience designing, deploying, and operating enterprise-scale cloud infrastructure on AWS. At WebPuppies (Singapore), independently owned the full CloudOps lifecycle — serverless architecture, CI/CD pipelines, event-driven automation, monitoring, and zero-downtime production deployments — from scratch. Experienced with AI/ML workloads on Amazon Bedrock (Agents, Guardrails) and FinOps-aligned cost optimization. Holds 3 AWS certifications. Proficient with Python, Bash, IaC (AWS SAM/CloudFormation), and real-world Linux administration on edge hardware. Skilled at translating client requirements into scalable cloud solutions and communicating technical concepts clearly to both technical and non-technical stakeholders.

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## PROFESSIONAL EXPERIENCE

**Software Engineer — Cloud & AI** | *WebPuppies, Singapore (Remote)* Dec 2025 – Present

**Pioneer Lead Engineer — CloudOps, DevOps & AWS Platform Engineering**

- Enabled zero-downtime Lambda deployments across all environments, eliminating release risk, by designing and implementing end-to-end CI/CD pipelines using GitHub Actions, AWS CodeBuild, AWS CodePipeline, and AWS SAM CLI with automated build, test, and deploy stages.
- Achieved zero-touch enterprise-scale data processing of 120,000+ row datasets per run, by architecting event-driven automation workflows on AWS Step Functions with real-time status updates, automated error handling, and built-in retry logic.
- Secured the company's AWS APN Standard Tier partnership application — a formal business milestone — by single-handedly designing and delivering a production serverless platform on AWS Lambda, Step Functions, S3, DynamoDB, and API Gateway from zero.
- Maintained 100% security and compliance across all AI-generated outputs, by enforcing AWS IAM least-privilege policies, Secrets Manager, and Amazon Bedrock Guardrails across every infrastructure resource and AI workflow.
- Accelerated platform stability through proactive operational monitoring, by configuring AWS CloudWatch alarms, dashboards, and log-based metric filters — resolving issues before any customer-facing impact.
- Reduced AI output errors and hallucinations to near-zero in enterprise reports, by engineering advanced prompt engineering pipelines and iterative LLM refinement loops within Amazon Bedrock (Claude AI) to produce deterministic HTML and PDF cost-optimization reports.

**President** | *AWS Learning Club — JRU Chapter* Mar 2025 – Present

- Achieved the highest AWS-certified membership count across all AWS Cloud Club chapters in the Philippines, certifying 15 members to AWS Cloud Practitioner, by scaling the organization to 150+ members and establishing subsidized Tutorials Dojo training resources.
- Delivered the largest AWS student event in Metro Manila, drawing 400+ participants, by co-organizing AWS Student Community Day Mega Manila 2025 using Jira for cross-team task and milestone management.

**Web Developer & Data Analyst Intern** | *Analytics & AI Association of the Philippines* Oct 2024 – Present

- Achieved top Google search rankings for both aap.ph and aicon.ph, by independently executing production domain configuration, DNS setup, AWS cloud hosting, and ongoing SEO management — first end-to-end solo production deployment.
  - Enabled data-driven stakeholder decisions, producing reports adopted into organization strategy, by conducting comprehensive data analysis on membership, web traffic, and social media performance with visualized reporting.
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## KEY PROJECTS

**Lily — Intelligent Campus Robot (Undergraduate Thesis)** | *Python, FastAPI, React, Raspberry Pi 5, AWS, Supabase* 2024 – 2025

- Reduced campus robot infrastructure cost by 80% — from 100,000 PHP to 30,000 PHP — versus industry-standard solutions, by architecting a hybrid cloud-edge AI system using Raspberry Pi 5, open-source LLMs, and selective AWS cloud services.
- Maintained 2–4 second AI response times under continuous student load serving 1,000+ projected users, by administering a Linux (Ubuntu) edge system end-to-end: OS setup, system service management, CPU/memory resource allocation, and process prioritization via CLI.
- Achieved uninterrupted AI service availability even during internet outages, by implementing a hybrid cloud-edge failover architecture that transparently switches from Groq cloud LLM + ElevenLabs TTS to fully local Ollama LLM + pyttsx3 — a real-world high-availability pattern.
- Enabled non-technical university staff to manage the system without physical access, by building a Python/FastAPI backend with Supabase cloud architecture and a React web-based remote management console.

### Highly Available Web Application | AWS: VPC, EC2, RDS MySQL, ALB, Auto Scaling, CloudWatch, IAM, Secrets Manager 2024

- Validated fault tolerance across AWS availability zone failures, by architecting and deploying a multi-tier web application with Auto Scaling Groups, CloudWatch CPU-based alarms, Application Load Balancer, and Multi-AZ RDS MySQL.
- Achieved automated, policy-driven infrastructure lifecycle management, by configuring Lambda functions with EventBridge triggers for scheduled operations, EBS snapshot automation, and IAM role-based access across all resources.

### AWS Bedrock AI Cost Consultant Platform | Amazon Bedrock, Claude AI, Python, Node.js 2024

- Delivered deterministic, hallucination-resistant enterprise cost-optimization reports covering EC2 right-sizing, RDS, NAT Gateway, S3, and Reserved Instances, by developing multi-step prompt engineering pipelines and iterative model refinement loops in Amazon Bedrock — directly aligned with FinOps best practices.

## TECHNICAL SKILLS

**Cloud:** Azure, AWS Lambda, Step Functions, API Gateway, S3, DynamoDB, EC2, RDS, VPC, Auto Scaling, ALB, CloudWatch, Elastic Beanstalk, EventBridge, IAM, Secrets Manager, SAM CLI, Bedrock (Agents, Guardrails), CodeBuild, CodePipeline

**laC & Automation:** AWS SAM (CloudFormation-based), event-driven infrastructure; actively studying Terraform, Azure ARM, Bicep, Google Cloud Deployment Manager

**CI/CD & DevOps:** GitHub Actions, AWS CodeBuild, CodeDeploy, CodePipeline, AWS SAM CLI — end-to-end pipeline design, multi-environment automation, zero-downtime deployments

**AI/ML Cloud Services:** Amazon Bedrock (Agents, Guardrails), Amazon SageMaker (concepts), Prompt Engineering, LLM Orchestration, RAG (FAISS, pgvector), LangChain, LangGraph

**Linux Administration:** Raspberry Pi OS (Debian), Ubuntu — OS config, systemd, CLI admin, networking, process/resource management

**Monitoring & FinOps:** AWS CloudWatch (alarms, dashboards, log groups, metric filters); cloud cost optimization, EC2/RDS right-sizing, Reserved Instance planning; learning Datadog

**Scripting & Dev:** Python (Expert), Bash, JavaScript/TypeScript, Node.js, Java, PHP, React/Next.js, FastAPI, RESTful APIs, Microservices

**Databases:** MySQL, PostgreSQL, SQL Server, Oracle, DynamoDB, Supabase, Firebase, pgvector, FAISS vector store

**Networking:** VPC, VNet, subnets, security groups, DNS, TCP/IP, HTTP/S, Application Load Balancer, NAT Gateway

**Project Tools:** Jira (Agile/Scrum, multi-project), SDLC, technical documentation, stakeholder presentations, cross-functional collaboration

## CERTIFICATIONS

- AWS Certified Developer – Associate
- AWS Certified AI Practitioner
- AWS Certified Cloud Practitioner
- CompTIA ITF+
- Currently pursuing: AWS Solutions Architect – Associate

## AWARDS & RECOGNITION

- 2nd Place — Globe Telecom Code-To-Career Hackathon 2025 | Python data engineering for real-world solution development
- Hack-Nation AI Global Hackathon — Selected to compete alongside participants from MIT, Harvard, and Stanford University
- Finalist — PLDT & Smart Innovation Generation Season 4 | Led full-stack development of THRIVE as project manager and team leader
- Super AI 2025 Singapore Delegate — One of 100 students worldwide selected to attend the largest international AI summit

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## EDUCATION

**Bachelor of Science in Computer Engineering** | *Jose Rizal University, Philippines*      2022 – 2026

*Dean's Lister • DOST SEI Scholar*