

RIZELLE B. BAUTISTA

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

PROFESSIONAL SUMMARY

Results-driven Software Engineer with 2+ years of hands-on experience across the full software development life cycle — from requirements analysis and system design through implementation, testing, and deployment. Proven track record building production-grade, enterprise-scale systems using Python, Java, JavaScript/TypeScript, SQL (MySQL, SQL Server, PostgreSQL, Oracle), and AWS cloud services. Architected and delivered a fully serverless AI platform at WebPuppies (Singapore) now integrated into production. Led full-stack development of multiple shipped systems including a Java-based DBMS for a solar panel business, a university thesis library platform turned over to José Rizal University, and an inclusive job platform validated by external stakeholders. Experienced in Agile/SDLC methodologies, CI/CD pipelines, and mentoring junior developers.

PROFESSIONAL EXPERIENCE

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

Lead Developer — AWS Bedrock AI Cost Consultant Platform

- Conceived, designed, and delivered a full production enterprise platform from scratch using Python, Node.js, React/Next.js, AWS Lambda, Step Functions, S3, DynamoDB, and API Gateway — following SDLC best practices from requirements through deployment.
- Engineered event-driven agentic workflows on AWS Step Functions capable of processing 120,000+ row CSV files with real-time status updates and automated error handling, ensuring zero-touch data analysis at scale.
- Implemented end-to-end CI/CD pipelines using AWS SAM CLI, GitHub Actions, AWS CodeBuild, and CodePipeline — achieving zero-downtime Lambda deployments across all environments.
- Wrote and maintained comprehensive test suites and technical documentation aligned with company engineering standards; applied AWS Guardrails to enforce compliance and responsible AI across all outputs.
- Collaborated directly with the Head of Technology, translating business requirements into technically sound architecture; platform is now a key deliverable for the company's formal AWS APN Standard Tier partnership application.
- Applied structured prompt engineering and model refinement loops with Amazon Bedrock (Claude AI) to auto-generate professional HTML and PDF cost-optimization reports with deterministic, hallucination-resistant recommendations.

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

- Scaled organization to 150+ members; guided 15 members to AWS Cloud Practitioner certification — highest AWS-certified membership count across all AWS Cloud Club chapters in the Philippines.
- Co-organized AWS Student Community Day Mega Manila 2025 — the largest AWS student event in Metro Manila, drawing 400+ participants.
- Mentored and provided technical guidance to less-experienced members through structured review sessions, hands-on labs, and subsidized Tutorials Dojo learning resources.

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

- Developed and launched full-stack websites (aap.ph, aicon.ph) using React/Next.js, PHP, and MySQL; integrated third-party payment APIs (Helixpay) and achieved top Google search rankings through SEO optimization.
- Conducted comprehensive data analysis of membership, website traffic, and social media performance; produced data-visualized reports with strategic recommendations.
- Responsible for connecting the official AAP website to its domain and independently executing the live production launch — first independent website deployment.

KEY PROJECTS

FRAPS Solar Works — Database Management System | Java, MySQL, XAMPP, NetBeans

- Sole developer responsible for full SDLC: requirements gathering, database design, normalization, application development, testing, and documentation for a client-facing business system.

- Designed and normalized a relational database in MySQL via XAMPP to ensure data integrity, efficiency, and scalability; structured the schema to support multi-role access control for Administrators, Sales, Inventory, and IT Support personnel.
- Built the full application in Java using NetBeans IDE — implementing role-based authentication, inventory tracking, service management, and sales reporting modules from the ground up.
- Delivered a system that eliminated manual data management inefficiencies, reduced errors, and enabled organized operations for a solar panel installation business serving clients across Bulacan and nationwide.

JRU Library Thesis Website | PHP, Python, MySQL, JavaScript, HTML/CSS

- Lead Developer and Project Manager for a university-commissioned web platform enabling graduating students to publish and browse thesis research — successfully turned over to José Rizal University and currently in active use.
- Designed the entire database schema and system architecture in MySQL; built full-stack using PHP and Python for backend, HTML/JavaScript/CSS for frontend.
- Led a team of developers: distributed tasks, guided less-experienced members through implementation challenges, reviewed code quality, and managed delivery within a strict academic deadline.
- Gained hands-on experience integrating new technologies (PHP, MySQL) under time pressure, demonstrating adaptability and strong problem-solving within the SDLC.

THRIVE — Inclusive Job Platform for PWDs | React Native, Supabase, PostgreSQL, AI (STT/TTS)

- Team Leader and Full-Stack Developer for an inclusive mobile job platform validated by PDAO Cainta and external employer groups; finalist in PLDT & Smart Innovation Generation Season 4.
- Designed the full database schema and application architecture; built role-based dashboards for both PWD job seekers and employers, job application workflows, applicant tracking, upskilling modules, and accessibility features (STT/TTS).
- Conducted user testing with PWD community stakeholders and employer organizations across Pasig and Pangasinan, iterating on feedback to improve accessibility and usability.
- Managed full product lifecycle from ideation through MVP validation, ensuring all core features were tested, documented, and aligned with Philippine disability rights laws.

Lily — Intelligent Campus Robot (Undergraduate Thesis) | Python, FastAPI, React, Supabase, Raspberry Pi

- Architected and built a fully autonomous edge AI robot integrating 5 simultaneous AI systems on Raspberry Pi 5 (8GB): speech-to-text, CNN emotion detection (85% accuracy), Hybrid Adaptive RAG, dual-mode LLM, and dual TTS — online/offline failover.
- Built Python/FastAPI backend and React admin dashboard with Supabase cloud architecture; reduced solution cost 80% (100,000 PHP → 30,000 PHP) vs. industry-standard solutions by leveraging hybrid cloud-edge design.

Highly Available Web Application | AWS: VPC, EC2, RDS MySQL, ALB, Auto Scaling, CloudWatch

- Architected and deployed a scalable multi-tier web application across multiple availability zones using Auto Scaling policies, Application Load Balancer, CloudWatch alarms, IAM roles, and AWS Secrets Manager for secure credential management.

TECHNICAL SKILLS

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

Databases & SQL: MySQL, SQL Server, PostgreSQL, Oracle, DynamoDB, Supabase, Firebase, FAISS vector store, pgvector — experienced in schema design, normalization, query optimization, and data modeling

AWS Ecosystem: Lambda, Step Functions, S3, API Gateway, DynamoDB, EC2, RDS, CloudWatch, Elastic Beanstalk, Auto Scaling, CodeBuild, CodePipeline, Bedrock, SAM CLI, IAM, Secrets Manager

DevOps & Tools: GitHub Actions, AWS CodeBuild/CodeDeploy/CodePipeline, CI/CD pipelines, NetBeans IDE, XAMPP, Jira, n8n

AI & GenAI: Amazon Bedrock, LangChain, LangGraph, RAG (FAISS, pgvector), Prompt Engineering, LLM Orchestration, Groq, Ollama, ElevenLabs

Methodologies: Agile, SDLC, Software Testing & QA, Technical Documentation, Code Reviews, Team Leadership, Project Management

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

EDUCATION

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

- Dean's Lister • DOST SEI Scholar