MIGGY G. RIVERA

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EDUCATION

Jose Rizal University
Bachelor of Science in Information Technology | 2024 - Present | In progress

EXPERIENCE

Web Development Lead - AWS Student Builder Group, JRU
Jan 2026 - Present | Student leadership

- Lead a 10-person development team, review code, and mentor members in Git, JavaScript and web fundamentals.
- Built Python/FastAPI registration APIs with Pydantic validation, PostgreSQL persistence and automated application emails.
- Integrated a Groq-powered chatbot with streaming responses, input guardrails, rate limiting and caching.

Freelance Developer - Independent commissions
Project-based

- Delivered two applications for nursing and engineering students, translating client requirements into working software.
- Built and deployed Care Cures using Next.js, TypeScript and Supabase, providing bilingual English/Tagalog health information.

Information Technology Intern - Top Realty Corporation
Oct 2026 - Present

- Built an IT ticketing system using Next.js, TypeScript and PostgreSQL, covering request submission, automatic assignment and status tracking.
- Added role-based ticket access and a Groq-backed assistant that retrieves published knowledge articles and looks up the signed-in user's tickets.
- Developed a QR attendance prototype for interns and HR, with IN/OUT scanning, hour calculations, correction reviews and Daily Time Record exports.

Backend AI Engineer Intern - FlyRank AI
Jun 2026 - Sep 2026

- Completed a self-paced internship in AI and backend engineering, building systems to apply the concepts learned.

Vice President of External Affairs - AWS Student Builder Group, JRU
Apr 2026 - Present | Student leadership

- Manage 5-10 partnership inquiries monthly and draft formal correspondence; secured two official partnerships.

HACKATHON & TECHNICAL PROJECTS

Bumi Pulse - AI Ready ASEAN Youth Challenge 2026 (AI Singapore) - Top 10 Finalist, PH

- Collaborated on an agricultural AI platform for regional food security and agricultural resilience; team selected among the Top 10 Philippine finalists.

HYDRA - HackTheFlood 2025 - Impactful Solution Award (team)

- Developed a Python/Flask/SQLite pipeline to scrape, validate, geocode and store public infrastructure records.
- Implemented rule-based checks using contractor history, project costs and timeline discrepancies to flag anomalies.

Rule VII - AI Architect | Python, FastAPI, PostgreSQL, pgvector

- Built document extraction and indexing for the National Building Code, Fire Code and BP 344 accessibility regulations.
- Implemented retrieval with sentence-transformers and pgvector to supply regulatory context for AI-assisted architectural guidance.
- Designed PostgreSQL schemas and authenticated FastAPI endpoints with JWT verification and rate limiting.

Hima-Paiflow - Full Stack Mobile Developer | Hackathon project

- Built a React Native/Expo student allowance app with Safe-to-Spend budgeting and a TypeScript/Express backend.
- Integrated Groq budget advice and NFC checkout with payment confirmation and automatic savings on the Stellar testnet.

Pax Virentia - Project Manager / Full Stack Developer

- Managed and contributed to full stack development of a React/TypeScript and Python/FastAPI water-treatment simulation platform.
- Built scenario comparisons for energy use, emissions and operating costs, with PostgreSQL-backed results and AI explanations.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL
Frameworks & Data: FastAPI, Flask, React, Next.js, PostgreSQL, Supabase, pgvector, SQLite
Practices & AI: Git, debugging, code review, automated testing, REST APIs, embeddings, LLM APIs
Communication: Technical documentation, mentoring; English: Fluent