

ALLAN JR. D. BANZUELA

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EDUCATION

LAGUNA STATE POLYTECHNIC UNIVERSITY

BS Computer Science

Major in Intelligent Systems

General Weighted Average (GWA): 1.38

San Pablo City, Laguna

2022 – 2026

WORK EXPERIENCE

ARMADA LOGICS INC.

Remote – San Fernando City, La Union

Web Developer Intern

Jan 2026 – Mar 2026

- Delivered 87 assignments across 6 domains (HTML/CSS, JavaScript, OOP, Java Spring MVC, SQL, PHP) during 400 hours of intensive full-stack training
- Built a client-side storefront (product catalog, cart, checkout flow) in vanilla HTML/CSS/JS under a 1-week deadline with a 5-person team, presenting in simulated client meetings covering requirements gathering and scope negotiation

DSWD SAN PABLO (University Thesis)

San Pablo City, Laguna

Full-Stack Web Developer

Jun 2025 – Dec 2025

- Built WelfareCast, an AI-powered welfare management system replacing 100% manual beneficiary encoding in Excel, as one of 2 full-stack developers on a 3-person thesis team
- Owned the 81-endpoint API, 16-table database schema, and AI microservice end-to-end, from architecture through production deployment on Azure
- Architected role-based access across city/municipal and provincial tiers, designed to scale across Laguna's 30 cities and municipalities under a single provincial deployment

PROJECTS

PRICEWATCH

- Engineered a fault-tolerant, message-driven scrape pipeline (RabbitMQ quorum queues, dead-letter routing, Redis-based locking) that guarantees zero job loss during broker failures and prevents duplicate scans across products, even under concurrent load
- Implemented the transactional outbox pattern for guaranteed notification delivery during broker outages
- Secured authentication with JWT HttpOnly refresh cookies, token rotation, and server-side revocation, preventing XSS token theft and ensuring compromised credentials are single-use and instantly revocable

WELFARECAST

- Developed a FastAPI + Prophet microservice with 7 forecasting endpoints covering monthly demand, per-city, per-barangay, and household-level trend predictions
- Designed a dynamic template engine letting staff create custom assistance programs without developer involvement
- Automated PDF/Excel reporting across 8 distribution views, eliminating manual report compilation

OPSCENTER

- Built 6 backend microservices (auth, job queues, rate limiting, concurrency, file storage, caching) under one Next.js dashboard, with real-time SSE pipeline visualization for the job queue service surfacing processing, retry, and dead-letter events as they happen
- Implemented Rate Limiter Lab comparing 3 algorithms (fixed window, sliding window, token bucket) with a bot simulator, and TaskYard with chaos-mode fault injection and dead-letter routing to validate pipeline recovery under simulated failures

ADDITIONAL

Technical Skills

Proficient: Java, Spring Boot, Spring MVC, JavaScript, TypeScript, React, Next.js, Python, FastAPI, SQL, PostgreSQL, Redis, RabbitMQ, REST APIs, Git

Familiar: C#, ASP.NET Core, EF Core, Docker, Azure, Prophet

Certifications: IT Specialist – Cybersecurity (Certiport/Pearson VUE), JavaScript Essentials 1 & 2 (Cisco), Web Development Fundamentals (IBM SkillsBuild), Java Programming (Armada Logics Inc.)