

Jorym Renz Arias

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WORK EXPERIENCE

SOFTWARE DEVELOPER INTERN

Feb. 2026 – May. 2026

Denso Ten Solutions Philippines Corporation (Ortigas Center, Pasig City)

- Engineered a firmware validation desktop tool with persistent per-project configs, **cutting verification setup time by ~60%** across **3 firmware variants per project** with Electron JS
- Led development of an automated binary log decoding desktop app using C# WPF, **reducing parsing time by over 75% (under 30s vs. 2+ min)** and **eliminating hours of manual binary cross-referencing** and hierarchical data entry; presented architecture and ROI to senior management, securing **adoption across the full PDS team**
- Modernized a 10-person section's single-computer Excel-based logging** with two Android mobile apps, **enabling network-wide** test result and attendance updates from any device using Android Jetpack Compose
- Delivered an intern time-tracking system using Microsoft Power Platform with a real-time supervisor dashboard, eliminating manual HR cross-referencing; **adopted across multiple sections** beyond initial deployment

PROJECTS

SONAVI (Project Lead & Lead Developer)

Feb. 2025 – Oct. 2025

Undergraduate capstone project, peer-reviewed paper accepted for Oral Presentation (600+ submissions) at IRCITE 2026 (PSITE Region III)

- Led a 5-member team and built an Android + Wear OS system using **Kotlin, Jetpack Compose, TensorFlow Lite, MFCC extraction**, and **JTransforms** for real-time environmental sound detection; **average detection latency < 1.5s**.
- Implemented **custom sound training** with cosine similarity, adaptive thresholds, and prototype-based matching.
- Optimized continuous monitoring power to **~6%/hr (watch)** and **~5%/hr (phone)** while maintaining offline capability.

CLARIFAI: AI STUDY ASSISTANT (Project Lead & Full-Stack Developer)

Nov. 2025

- Built an **AI-powered study tool** where users upload PDFs, receive AI-generated questions and flashcards, answer them, and **get LLM feedback** on their understanding; using Next.js 15, tRPC, Drizzle ORM, Better Auth, and **Groq LLM via Vercel AI SDK**
- Added **Redis caching layer** with rate limiting to manage LLM API costs and reduce redundant calls

PLANTARIA (Project Lead & Lead Developer)

Oct. 2024

PSITE RAITE 2024 Hackathon

- Built urban farming platform using **ICP (Azle), TanStack Query, SQL.js (TypeORM)**, and **Tailwind**.
- Implemented tutorial publishing, bookmarking, decentralized identity (DFINITY), and in-canister database operations.

EDUCATION

BULACAN STATE UNIVERSITY – SARMIENTO CAMPUS

Aug. 2022 – Jun. 2026

BS Information Technology, Major in Web and Mobile Application Development

General Weighted Average (GWA): 1.26 / 1.00 (Magna Cum Laude); (2x) President and (1x) Dean's List Awardee (3/3)

Relevant Achievements:

- PSITE IT Education Excellence (ITE) Awardee
- Best Research Paper (IT Track 3), IRCITE 2026
- Best Presenter, Best Research Paper & Best in Capstone Project, ITDS Research Colloquium 2025
- 1st Place, Junior Programming Competition 2024 (Java); Outstanding Performance in 11th TOPCIT PH 2024

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Java, Kotlin, C#

Frontend & Mobile: React, Next.js, Tailwind CSS, TanStack Query, Zustand, Jetpack Compose, Electron

Backend: Node.js, Express, tRPC, Drizzle ORM, Prisma ORM, Better Auth, Firebase

Databases: PostgreSQL, SQLite (Turso), MongoDB, Supabase

Infrastructure & DevOps: Linux, Git, AWS, Vercel, Docker, n8n, Microsoft Power Platform

CERTIFICATIONS

Registered Scrum Basics™ by Agile Education by Scrum Inc.™

Jul. 2026

Introduction to Generative AI by Google

Jul. 2026

13TH TOPCIT PHILIPPINES – Score: 576 (Level 3) · Top 10% nationwide · 1st / ~50 at BulSU-SC

Dec. 2025