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TECHNICAL SKILLS

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

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

Backend: Node.js, Express (JS), Drizzle ORM, Prisma ORM, Better Auth, Turso, Firebase

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

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

WORK EXPERIENCE

SOFTWARE DEVELOPER INTERN

Feb. 2026 – May. 2026

Denso Ten Solutions Philippines Corp. (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 decoding of raw device telemetry 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**
- Replaced single-computer Excel-based logging for a 10-person section** 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.

D'SHINE: AI MARKETING ASSISTANT (Project Lead & Full-Stack Developer)

Nov. 2024 – Dec. 2024

- Developed AI-powered customer engagement tool using **Next.js, TypeScript, Tailwind**, and **Groq LLM** integrations.
- Built product segmentation, automated message generation, and CRM-style features for a cosmetics distributor.

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

Bachelor of Science in Information Technology, Major in Web and Mobile Application Development

Magna Cum Laude (GWA: 1.26 / 1.00) · Consistent (2x) President and (1x) Dean's List Awardee (3/3)

- 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 TOPCIT 2024

CERTIFICATIONS

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

Dec. 2025

11TH TOPCIT PHILIPPINES – Score: 354 (Level 2) · Top 30% nationwide · 1st / ~150 at BulSU-SC

Nov. 2024