

CARLOS MIGUEL I. SANDRINO

Web & Mobile Developer

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Innovative IT graduate and Full-Stack Developer specializing in modern web technologies including Next.js, React, Tailwind CSS, and Supabase. Proven ability to build scalable web and mobile applications with a strong focus on UI/UX and backend integration. Passionate about developing efficient solutions like loyalty systems and tracking applications.

TECHNICAL SKILLS

- Frontend: Next.js, React, TypeScript, Tailwind CSS, HTML5/CSS3, Framer Motion, Shadcn/UI
- Backend: Node.js, PHP, REST API, Supabase, Firebase
- Mobile: Flutter (Dart)
- Database: PostgreSQL, MySQL
- Tools: Git/GitHub, Figma, Vercel, Postman

PROJECTS

Byte & Brew - Digital Loyalty Card System *React, TypeScript, Tailwind CSS, Supabase, PostgreSQL*

- **Architected a comprehensive loyalty platform** featuring a customer dashboard and admin panel for transaction tracking and analytics.
- **Engineered an RFID-based authentication system** to streamline point-of-sale transactions and user identification.
- **Implemented real-time database updates** using Supabase to ensure accurate reward point reflection.

EDUTrack - Student Location Tracking App *Flutter (Dart), Firebase, Geofencing API*

- **Developed a mobile tracking application** utilizing Geofencing technology to monitor student safety within school premises.
- **Integrated real-time alerts** via Firebase Cloud Messaging to notify guardians of unauthorized exit or emergency situations.

Water Level Monitoring System *IoT, Flutter, PHP, REST API, Arduino*

- **Designed an IoT-enabled disaster response system** integrating Arduino sensors with a mobile interface for real-time flood monitoring.
- **Built a RESTful API** to bridge hardware data with the frontend application, ensuring low-latency data transmission.

MarJuan Apartment Management System *PHP, MySQL, JavaScript, Bootstrap*

- **Created a centralized management portal** for tenant tracking, inventory management, and automated billing.
- **Optimized database structure** to handle complex relationships between tenants, units, and payment records effectively.

EDUCATION

Bachelor of Science in Information Technology Bicol University Polangui Campus | *Graduated July 2024*

- **GWA: 1.68**