

RAYMOND M. VALDEPEÑAS

Full-Stack Developer — AIoT & Embedded Systems — Junior Software Engineer

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Portfolio: raymondvaldepenas-dev.vercel.app

Professional Summary

Full-Stack Developer with experience in building and deploying SaaS platforms, IoT-enabled systems, and AI-powered automation solutions. Skilled in React/Next.js, Node.js, TypeScript, MySQL/PostgreSQL, and edge-based machine learning integrations. Strong foundation in software engineering, system design, and real-time data applications. Published research under Springer NiDS 2025 on AIoT facial recognition systems.

Technical Skills

Frontend: React.js, Next.js, TypeScript, JavaScript, Tailwind CSS, ShadCN, Material UI, Ant Design, HTML5, CSS3

Backend: Node.js, Express.js, REST APIs, WebSockets, WebRTC, FastAPI, Flask, NextAuth.js

Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase

AI/ML: PyTorch, YOLO, NumPy, Pandas, Jupyter, Google Colab

IoT/Hardware: Raspberry Pi, ESP32, Arduino, Blynk, PLC Siemens, Cisco Networking

DevOps/Deployment: Git, GitHub, Docker, Vercel, Render.com, AWS (basic), CI/CD

Tools: VS Code, Figma, Postman, Notion, NodeMailer, Zod, Zustand

Professional Experience

Full-Stack Developer Intern Logicbase Interactive Ent., Cagayan de Oro (Jan 2025 – May 2025)

- Developed and deployed an internal project management and customer support SaaS web app using Next.js and MySQL, improving task visibility and team coordination by 25% and reducing client response times by 30%.
- Conducted QA testing on a POS system, identifying 15+ critical and 100+ minor bugs, accelerating bug resolution and improving system reliability.
- Designed landing page UI/UX mockups in Figma and contributed to web content and company social assets.

Selected Projects

MoneyCacheHub — Personal Finance Management Web App

- Built using Next.js, Zustand, MySQL, NextAuth.js; implemented real-time data sync and PDF export. Deployed on Vercel with secure authentication and scalable schema.

Logicbase Command — Internal Project Tracking System

- Improved project accountability and collaboration by designing a modular Next.js + MySQL dashboard with role-based access control.

Mobile Autonomous Plant Watering Robot (AI-Robot)

- Built an autonomous robot using Raspberry Pi 5, YOLOv11, ultrasonic sensors, and mecanum wheels. Implemented object detection-guided navigation and remote scheduling dashboard.

Research

My.BoardHub: Development of a Single-Board Computer-Based Security System Using Artificial Intelligence of Things for Boarding Houses (Published – Springer NiDS 2025)

Developed an AIoT-based security system integrating facial recognition on Raspberry Pi for real-time boarding house surveillance, achieving over 94% recognition accuracy and near real-time performance.

DOI: 10.1007/978-3-032-06634-3_6

Education

Mindanao State University - Iligan Institute of Technology (2021–2025)

Bachelor of Science in Computer Applications Major in IoT — **Magna Cum Laude** (GWA 1.42535)