

Mark Jeric Exconde

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EDUCATION

Laguna State Polytechnic University - San Pablo City Campus

Bachelor of Science in Computer Engineering

Laguna, PH

Jun 2022 – Jun 2026

EXPERIENCE

Junior Web Developer Intern (On-the-Job Training)

Feb 2026 – Mar 2026

RGRR Webmaker Philippines

Quezon, PH

- Developed two user interfaces for BookNGo, a multi-tenant SaaS appointment platform, building the client dashboard and dynamic business booking pages with Next.js, TypeScript, and Tailwind CSS.
- Led Git-based development workflows for an 8-member intern team by managing the GitHub repository, reviewing 11 pull requests, and resolving 3 merge conflicts to maintain code quality and proper feature integration.
- Integrated backend Supabase SSR authentication and REST API endpoints with the Next.js frontend, enabling secure user authentication and communication between frontend-side interfaces and backend services.

PROJECTS

Smart Shoe Care Machine | *Next.js, TypeScript, PostgreSQL, ESP32, Kotlin*

Oct 2025 – Jun 2026

- Developed four web user interfaces for the landing page, kiosk, client dashboard, and admin dashboard using Next.js, TypeScript, Tailwind CSS, Prisma, and PostgreSQL, implementing customer and business workflows
- Built an android kiosk application in Kotlin as a locked-down WebView launcher, integrating the touchscreen interface with the kiosk's web application and service workflow
- Programmed ESP32 microcontroller for machine control and ESP32-CAM for image capture, integrating Google AI Studio's Gemini 2.5 Flash Lite model API for real-time shoe classification and condition assessment.
- Implemented PayMongo API QR payment integration and WebSocket/REST communication between the web backend, the frontend and ESP32 controller, enabling payment-validated and automated machine operation.

VitaLink AI | *Next.js, FastAPI, ESP32, Scikit-Learn, PostgreSQL, Tailwind CSS*

Oct 2025 – Jan 2026

- Developed three responsive web interfaces—a landing page, student dashboard, and admin dashboard—using Next.js and Tailwind CSS for real-time health monitoring, data visualization, and administration.
- Implemented FastAPI backend services with authentication and WebSocket communication between the ESP32 and frontend, enabling secure access and real-time sensor data streaming for live and historical monitoring.
- Integrated a machine learning Isolation Forest anomaly detection model into the backend, processing ESP32 sensor data to identify abnormal heart rate and motion patterns and surface health alerts in the dashboards.

Sign Language Translator App | *Kotlin, Jetpack Compose, MediaPipe, Python, Blender*

Feb 2024 – May 2024

- Developed an Android application for bidirectional sign language translation, converting text to visual signs and recognizing hand gestures to text using Kotlin, Jetpack Compose, and Google MediaPipe.
- Trained a real-time sign recognition model on 34.2K+ images across 57+ sign classes, covering alphabet letters and commonly used dictionary words.
- Implemented real-time hand landmark detection and gesture classification, and created 3D sign language visualizations in Blender for integration into the application.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, HTML/CSS, Tailwind CSS, Vite, Kotlin, Java, Jetpack Compose

Backend & Databases: Python, FastAPI, SQL, PostgreSQL, SQLite, Supabase, Prisma

AI Tools & Automation: Claude Code, OpenAI Codex, Local LLMs, n8n

DevOps & Infrastructure: Git, GitHub, Vercel, Render, Docker, Operating Systems

Embedded & Networking: Arduino, ESP32, WebSockets, Cisco Packet Tracer

CERTIFICATIONS

Networking & Cybersecurity: Cisco Networking Basics, Cisco Introduction to Cybersecurity

Artificial Intelligence: Cisco Introduction to Modern AI, Anthropic Claude101, OpenAI AI Foundations, OpenAI Applied AI Foundations, OpenAI Agents and Skills