

Software Engineer - Angel Bernal Mendez

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👤 [Portfolio](#)

EDUCATION

SENATI, San Ramon (National Service for Industrial Training)

Technician in Software Engineering with Artificial Intelligence

May 2026 – Present

Junin, Perú

EXPERIENCE

DiofHost

Infrastructure Engineer - Part-time

Sep 2026 – Present

Remote, Spain

- Designed and maintained hosting infrastructure for production workloads, improving reliability through automated health monitoring.
- Developed an AI autonomous monitoring system to detect unhealthy status and problems.
- Built a scalable, cross-platform mobile application using React Native and Nativewind to manage employee workflows and company departments.
- Reduced infrastructure costs by 25% by limiting hardware to the bare essentials and designing our own services.

DiofStudios

FullStack Developer - Part-time

March 2026 – Sep 2026

Remote, Spain

- Migrated and redesigned the old PHP web app to a modern system with NextJs and migrated the tickets and user databases to PostgreSQL.
- Built websites for the agency customers, mainly using NextJs, Astro, Supabase and NestJs.

Freelance Web Development

FullStack Developer - Self-employed

Dec 2025 – Present

International

- Software architecture: choose technologies based on requirements and specifications.
- Small corrections or entire redesigns of existing websites.
- Ensured consistency of style along the page: buttons, icons, and card layouts across all sections.
- Optimized for mobile and accessibility to improve cross-device usability.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C++, Python.

Technologies: HTML, CSS, TailwindCSS, React, NextJs, Astro, Vite, Zustand, Redux Toolkit, FastAPI.

Infra Technologies: Git, GitHub, Postman, Netlify, Chrome DevTools, Sentry, Vercel, Neovim, Linux.

PROJECTS

iPhone 15 Pro Website [Live](#) [GitHub](#)

- Built an attractive animated page to introduce the new iPhone 15 using Vite + React, Tailwind CSS and GSAP Library to implement animations along the page.
- For this frontend project I chose Vite for a fast start, and Tailwind for styling rapidly, and GSAP to add scroll-driven animations in the page.
- Technologies: ReactJS, Vite.js, TailwindCSS, GSAP.

Centinela [GitHub](#)

- Built an offline AI powered physical station to autonomously detect the fruit fly plague in citrus plantations.
- Used Python to fine-tune MobileNet-V3 to detect the *anastrepha fraterculus* between normal flies and other insects in the designed trap.
- Use LoRa-WAN to transfer the station status and send a report to an app in case a fruit fly was detected.
- Technologies: MobileNet-V3, Fine Tuning, Python, PyTorch, OpenCV, ScikitLearn.