Allan Vargas Torres

Full Stack Developer · Pérez Zeledón, Costa Rica · Available now, open to remote work (UTC−6)
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Summary

Information Systems Engineering student (coursework complete; graduating May 2027) and full-stack developer with two client systems in production. Completed a software development internship at Argana on a modular ERP and an e-invoicing platform. Experienced in TypeScript (Next.js, NestJS, React Native) and Python, automated testing and CI.

Experience

Software Development Intern – Argana Jul 2026 – Nov 2026
Modular ERP and e-invoicing platform · university-supervised internship, 32 h/week *Costa Rica*

- Implemented accounting-module rules with TDD (chart of accounts, accruals, asset impairment, consolidation) in NestJS, Drizzle and PostgreSQL. **Top contributor** on a team of five; 3,500+ tests in the codebase.
- Ran a gap analysis of the same ERP against an **international accounting standard**: **311 requirements** checked against the code and the running system, with a remediation plan organized into work packages.
- Wrote a full-repository audit of a multi-tenant e-invoicing SaaS and fixed its **17 findings** (8 tax-compliance defects, 9 business-logic bugs) before launch; proved tenant isolation with PostgreSQL RLS in CI (NestJS, React).

Full Stack Developer (independent) – TyT Tecnología Jul 2026 – Present
Tech repair and security camera shop · part-time · tytsoluciones.net *Pérez Zeledón*

- Designed, built and deployed the website, product catalog and admin dashboard as the sole developer (Next.js, Prisma, PostgreSQL, Auth.js, Cloudflare R2).
- Bilingual site with technical SEO, WhatsApp order handoff, and AI-generated promotions (Gemini) reviewed before publishing.
- Ports and adapters (moved image storage to Cloudflare R2 by swapping one adapter); **119 test files** in CI.

Full Stack Developer – La Aguja de Oro Sep 2024 – Present
Odoo 17 ERP · built with a partner, started as a university project · agujadeoro.org *Costa Rica*

- Built the sales, quick-service and reporting modules, co-developed repairs and customized warranties, with Costa Rican fiscal print formats (Python, Odoo 17, PostgreSQL). The business runs on it daily.
- Set up and maintain the production server on DigitalOcean: Nginx, HTTPS, hardened SSH, firewall, and daily backups.

Projects

Miku Assistant | *Tauri, TypeScript, Python asyncio, Whisper, Gemini* github.com/Allan2612/miku-assistant

- Desktop voice assistant: local Whisper, Gemini function calling over a closed tool set, and a Live2D avatar. Designed to respond in **under 3 s** and to release the GPU when idle. Open source (MIT).

Rutica | *Expo, React Native, Supabase, TanStack Query* github.com/Allan2612/app-rutica

- Mobile app for nearby businesses, events and deals, co-developed with another student.

PlanTica | *Expo, TensorFlow.js, FastAPI, Firebase* github.com/Allan2612/plantApp

- Plant identification from a photo: on-device pre-check plus a hosted vision LLM behind a custom FastAPI backend. Solo project.

Quimera | *C, Python, PyQt5* Course project, pair work

- Designed and built a programming language: EBNF grammar, lexer, parser, AST and interpreter in C, plus a PyQt5 editor.

Digital Kids | *Next.js, NestJS, Prisma, PostgreSQL* Course project, team of about 30

- Assessment and reporting system for a daycare. **Top contributor** to the frontend and co-top contributor to the backend.

Skills

Programming	TypeScript, JavaScript, Python, SQL, HTML/CSS, C; Java (coursework)
Frontend & mobile	React, Next.js, React Native, Expo, Tailwind CSS, shadcn/ui
Backend	NestJS, Node.js, FastAPI, REST APIs, Odoo
Data	PostgreSQL, Prisma, Drizzle, Supabase, Firebase; Oracle (coursework)
DevOps & quality	Git, GitHub Actions, Docker, Vitest, Playwright, Linux (Debian/Ubuntu), Nginx, DigitalOcean, Vercel
Practices	TDD, Scrum (weekly sprints), ports and adapters, security reviews, LLM integration

Education

Bachelor's Degree in Information Systems Engineering 2021 – May 2027 (expected)
Universidad Nacional de Costa Rica, Brunca Regional Campus *Pérez Zeledón*

Coursework complete. Electives: AI, Information Security, Linux Server Administration and Educational Software.

IT Support Technician Diploma – *Colegio Técnico Profesional de Pejibaye (technical high school)* 2020

Languages: Spanish (native) · English (B2)