

# ANGEL JOSÉ CASTILLO PORTILLO

Tegucigalpa, Honduras (UTC-6) · +504 9655-6526 · portillocastilloa@gmail.com · angelcastillo.dev ·  
linkedin.com/in/angelcastillodev

## PROFESSIONAL SUMMARY

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Software engineer with 8 years building end-to-end web applications. Head of Technology at SENPRENDE, Honduras' national entrepreneurship agency, where I lead a team of 7 to 10 and operate five institutional platforms in production. In parallel I build Caprolis, a POS SaaS with tax-authority-compliant electronic invoicing for Honduran SMBs, and Fialo, an offline-first PWA that digitizes informal credit in corner stores. Previously consulted for the Inter-American Development Bank and Universidad Cristiana de Honduras.

Core stack: NestJS, Angular, Nuxt 3, PostgreSQL, Docker and Traefik. I stay involved from requirements through deployment and production monitoring. Open to remote roles overlapping US and Latin American hours, and to consulting engagements.

## PROFESSIONAL EXPERIENCE

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### SENPRENDE — National Entrepreneurship and Small Business Service, Government of Honduras

May 2022 – Present

*Head of Technology (Jun 2025 – Present) · Web Development Coordinator (May 2022 – Jun 2025)*

- Lead a team of 7 to 10 across development, support, data and design. Report to the Executive Director and take part in the institution's technology decisions.
- Own five platforms in production: Mi Empresa en Línea (online SRL/SA incorporation), SSE en Línea (legal status for social economy organizations: 13,930 organizations and 263,204 members registered), Comercia.hn (national marketplace: 999+ entrepreneurs), Personal y Viáticos (HR and travel-expense workflow) and an intranet with an AI chatbot over institutional documents.
- Migrated the institutional infrastructure to a containerized stack with Docker, Traefik v3 and Cloudflare, with CI/CD on self-hosted runners. Deployments went from a 30-minute manual process to 3 to 5 automated minutes, and manual deployment errors were eliminated.
- Built multi-schema PostgreSQL data marts and Power BI inclusion and diversity dashboards, broken down by sex, department, municipality and ethnic group. The Executive Director uses them for decision-making.
- Lead, on behalf of IT, the technical proposal to integrate Mi Empresa en Línea with the SAR tax authority to close the post-registration formalization gap, from pre-filling form SAR-410-PJ to a full API integration.
- As Coordinator, built the institutional platforms from analysis to production with Angular, NestJS and TypeORM, including requirements gathering and UML design.
- Administer the ZeroTier network, Synology NAS, MikroTik switching and observability with Prometheus, Grafana and Loki.

### Universidad Cristiana de Honduras (UCRISH)

Jul 2025 – Dec 2025

*Consultant, Virtual Library implementation (remote)*

- Implemented a university digital reading platform with in-browser reader, progress tracking and a per-major book recommendation algorithm.
- Content protection: single-use page tokens with 10-second expiration and dynamic per-user watermarking.
- PDF processing pipeline with automatic structure detection and semantic HTML conversion. Stack: NestJS, Angular 18, Prisma, MySQL.

### Inter-American Development Bank (IDB)

Jan 2025 – May 2025

*Technology Consultant, Gender Parity Initiative (IPG) Honduras (remote)*

- Designed and implemented the web platform for the IPG Resource and Service Directory for Women Entrepreneurs: advanced search, custom filters and a content admin panel.
- Migrated the institutional site from Joomla to WordPress with no content loss and no service interruption. Trained the SEMUJER IT team to run the site without an external vendor.

Full Stack Web Developer (remote)

- Published the Elohim Market e-commerce mobile app on Google Play and the App Store, with backend, integrated CMS, admin panel for catalog and orders, and payment gateway.
- Built a route optimization system for Elohim Home field agents that computes the shortest route across multiple GPS locations, cutting time and fuel on home visits.
- Implemented the field agents' mobile app to capture customer answers and property photos, synced with a dashboard where the team reviewed leads in real time.

## SELECTED PROJECTS

### Caprolis — POS SaaS for Honduran SMBs

Own product · In production · caprolis.com

Multi-tenant POS SaaS for corner stores, diners, restaurants and shops: point of sale, inventory and invoicing compliant with the SAR tax authority (CAI ranges, atomic server-side sequence numbers, 15/18 % VAT, customer tax IDs). Restaurant module with kitchen display, public digital catalogs with cart, QR menus, WhatsApp Business API notifications and granular per-employee permissions. Fiscal sequence numbers are assigned server-side and transactionally: generating them on the client is not valid before the SAR, and that detail is the difference between compliance and non-compliance.

NestJS + Prisma on PostgreSQL (87-table schema, 160+ migrations). Angular 21 admin with signals and standalone components, Nuxt SSR landing, React Native/Expo mobile app on Google Play. Runs on a DigitalOcean VPS behind Traefik v3 with GitHub Actions CI/CD and Prometheus, Grafana and Loki observability. Designed, built and operated solo. In production since February 2026: 147 businesses registered, 27 paying subscriptions, 137 tax-authority invoices issued.

### Fialo — Digitized informal credit for corner stores

Own product · In development · fialo.app

Offline-first PWA so shop owners can track "fiados", the informal credit they extend to customers. Long-term vision: an informal credit bureau for Latin America, a market with no formal credit data. NestJS + Nuxt 3 + Angular 21 admin on PostgreSQL 16 with immutable audit logs, RBAC with TOTP 2FA, and INE Honduras geography seeds (18 departments, 298 municipalities). Docker Compose + Traefik, GFS backups, GitHub Actions CI/CD.

## EDUCATION

### Master's in Strategic Management, specialization in Information Technology

2024 – Present

Universidad Internacional Iberoamericana (UNINI) · GPA 9.7 / 10 · Final project in progress

### B.S. in Information Technology Engineering

2017 – 2022

Universidad José Cecilio del Valle, Comayagua, Honduras · Magna Cum Laude

### Technical High School Diploma in Computer Science

2014 – 2016

Instituto Dr. Lorenzo Cervantes, La Paz, Honduras · Cum Laude

## TECHNICAL SKILLS

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|----------------|--------------------------------------------------------------------------------------------------------------------|
| CORE           | NestJS, Angular 21, Nuxt 3, TypeScript, PostgreSQL, Prisma, Docker, Traefik                                        |
| ALSO           | Vue, Ionic, React Native (Expo), TailwindCSS, PrimeNG, Express, MySQL, TypeORM, WordPress, Strapi                  |
| DEVOPS & INFRA | Docker Compose, GitHub Actions, Prometheus, Grafana, Loki, Linux, ZeroTier, Synology NAS, Cloudflare, DigitalOcean |
| DATA & BI      | Multi-schema PostgreSQL, data mart modeling, Power BI                                                              |
| PRACTICES      | Scrum, SOLID, Clean Code, UML, technical and executive documentation                                               |
| LANGUAGES      | Spanish (native), English (B2)                                                                                     |

## ADDITIONAL TRAINING

Advanced Angular and NestJS, Node.js, JavaScript ES6+, Nuxt with Strapi and GraphQL, Web Design, Cisco Introduction to IoT.