

# Abel Sánchez Urrea

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Mazatlán, Sinaloa | abelsandev@gmail.com | +52 669 161 4328  
[Github](#) - [LinkedIn](#)

## Summary

Full-stack engineer and CTO for a startup with strong expertise in modular architectures and AI-driven automation. Self-learning developer with the ability to rapidly acquire new skills and adapt to evolving technologies. Built scalable systems using hexagonal and microservices patterns, automated workflows with LangChain and other AI tools, optimized cloud infrastructure, and integrated complex systems like payments and tax/reporting flows. Delivered practical, scalable results under tight deadlines, turning complex backend/front-end/AI challenges into usable technology for businesses and customers. I build ideas into results.

## Experience

### CTO - [Kbotapp](#)

Remote | Jan 2025 - Present

- Led the full-stack development using NestJS, Next.js, and a hexagonal architecture, ensuring scalability, clean modular design, and high developer velocity.
- Architected and shipped the AI tax engine with LLMs + RAG + MongoDB Atlas Vector Search, enabling automated CFDI generation, validation, and tax filings.
- Designed and implemented an event-driven architecture with Cloud Pub/Sub to coordinate payments, invoicing, tax flows, and notifications reliably.
- Led the multi-tenant implementation, including organization tokens, RBAC, and secure isolation of financial + tax data.
- Built and maintained Twilio, Telegram integrations for onboarding, CRM workflows, and automated client interactions powered by AI.
- Created a complete audit-log system for tax actions, invoices, and AI decisions to ensure compliance and traceability.
- Established CI/CD pipelines using GitHub Actions + Cloud Run, reducing deployment times and supporting multiple daily releases.
- Designed and optimized the Stripe payments pipeline (subscriptions, usage-based billing, webhook retries) to ensure zero desync issues.
- Implemented monitoring, distributed logging, metrics, and alerts using Cloud Logging and Error Reporting.
- Standardized backend modules and contracts using OpenAPI/GraphQL schemas, DTO validation, and shared event contracts.
- Reduced cloud spending by 33% via instance lifecycle automation and Cloud Run optimization.
- Built internal CLI tools to automate migrations, backups, seeding, and environment setup, improving team productivity.
- Launched the Affiliate Program, enabling scalable partner-driven growth and additional revenue streams.
- Led a team of 5 developers and QA engineers, managing sprint planning, code quality, and delivery timelines.
- Collaborated closely with accounting teams and customers to gather requirements for complex tax, reporting, and payment workflows.
- Maintained close communication with the CEO and angel investor to align technical decisions with product strategy and growth milestones.

### Full-Stack Developer - [Grupo STI](#)

Mazatlán, Sinaloa | Mar 2024 - Jan 2025

- Designed and developed the Dportenis platform entirely from scratch, handling end-to-end architecture, frontend (Next.js) and backend (HCL) implementation, database modeling, and API integrations.
- Optimized performance and load times through careful architectural decisions, caching strategies, and code splitting, ensuring a fast and responsive user experience.
- Implemented custom AI tools in NestJS backend services to support sales teams with automated cross-selling suggestions and actionable insights.
- Collaborated closely with designers, QA, and stakeholders to ensure features aligned with business goals, resulting in a robust, scalable, and maintainable platform.

### **Full-Stack Developer - Freelance**

**Remote | Dec 2023 - May 2024**

- Built a conversational AI simulator for sales training using LangChain, Python, and ElevenLabs.
- Designed the backend using Hexagonal Architecture, ensuring the business logic was decoupled from external APIs and highly maintainable.
- Developed a custom course marketplace using React with structured state management.

### **Co-Founder & Developer - [GRS Agency](#)**

**Remote | Feb 2023 - Nov 2023**

- Co-founded a web development agency, managing client acquisition, project scoping, and technical delivery across projects.
- Acquired clients across diverse industries (e.g., e-commerce, real estate) and delivered projects that generated stable revenue for the agency.
- Led technical execution of e-commerce platforms and high-conversion landing pages using React, Node.js, and PHP.

### **Education**

#### **Universidad Politécnica de Sinaloa | Mazatlán, SIN (2024)**

**Degree:** Computer Engineering.

**Thesis / Projects:** Developed a social network for university students and a restaurant automation system for online ordering, similar to McDonald's.

**Relevant Coursework & Skills:** Software development, full-stack applications, database design, project management, team collaboration.

### **Skills & Interests**

**Cloud & DevOps:** AWS, GCP (Cloud Functions, Scheduler), Docker, CI/CD, Infrastructure Optimization.

**Architecture:** Hexagonal Architecture (Ports & Adapters), Microservices, System Design, GraphQL.

**Backend:** Python, NestJS, Node.js, TypeScript, PostgreSQL, MongoDB, PHP, SQL.

**Frontend:** Next.js, React, Tailwind CSS, MaterialUI, React Native, Electron.

**AI & Integrations:** LangChain, RAG, pgvector (Vector DBs), ElevenLabs, Stripe API, WorkOS, Messaging APIs, Typesense.

**Language:** Spanish (Native), English (B2+).

**Soft Skills:** Technical leadership, high ownership, fast execution, problem-solving under pressure, clear communication with founders and stakeholders, strategic thinking, ability to convert business needs into technical solutions, rapid self-learning, adaptability, collaboration, mentoring mindset.

**Interests:** AI projects, SaaS apps, automation workflows, mentoring, startups, entrepreneurship, reading, self-learning, turning ideas into implementation.