Carlos Enrique Piñeiro

Software Engineer — Full-Stack

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PROFESSIONAL SUMMARY

Full-stack software engineer with a product mindset and 6.5 years of software development experience — from Vue and Quasar on university projects and my thesis (2020) to shipping web products for international clients (since 2023). Strong in TypeScript and JavaScript (Vue, Nuxt, React) and Node.js backends; currently building native Android (Kotlin, Jetpack Compose) and Flutter solo — designing for unreliable connectivity, with clear UX for slow or failed USSD and HTTP requests in low-reception areas — directing AI coding agents and verifying every result.

EXPERIENCE

Backend Developer (Contract) — Independent Client, US-Based

Remote · January 2026 – February 2026

- Remediated backend architecture (ExpressJS, Prisma): introduced Zod validation and improved scalability and maintainability.

Frontend Developer — DaraServices

Remote, Mexico · January 2025 – June 2025

- Built B2B collaboration modules with Vue, TypeScript and TailwindCSS, working directly with product teams.
- Presented UX solutions to clients and led knowledge-sharing sessions on Material You.

Frontend Developer, AI and E-Commerce — NataSquad

Remote, France · April 2023 – September 2024

- Led frontend development for AI e-commerce services with Nuxt.
- Presented technical demos to investors and client stakeholders; integrated Figma UX prototyping, SEO and AI image-generation features.

AI / ML Lecturer — University of Computer Sciences (UCI)

Havana, Cuba · February 2023 – July 2025

- Taught AI and machine learning to 200+ students through lectures and workshops; delivered talks on emerging AI trends and built course materials bridging theory with practical engineering (Python).

Frontend Web Developer — JadeTech Group

Havana, Cuba · November 2023 – February 2024

- Built e-commerce platforms with direct client contact on requirements and sprint reviews.

FEATURED PROJECT

Carlito — Native Android Utility Hub for Daily Life in Cuba

Sole developer · Kotlin, Jetpack Compose · In beta (0.x)

Android app I designed, architected and developed solo — it started as an experiment to organise banking SMS and grew into a full utility hub:

- **Pizarra:** Balance dashboard (balance, data, voice, bonuses, SMS) queried over USSD, dual-SIM support.
- **Banca:** Bank accounts with biometric-protected PIN storage, transfers and online payments.
- **Mensajes:** Inbox organised by sender instead of a chronological dump.

Architecture documented as living documents alongside the code; Flutter migration in progress.

More projects: Meco · Hivepen — hivepen.com · Miazucar — details at carlosepc.hivepen.com

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML, CSS (SASS / SCSS), Kotlin, Dart, Python

Frontend: Vue 3, Nuxt, TailwindCSS, Quasar, React, Next.js, Flutter

Backend: Node.js, ExpressJS, Prisma, Zod, REST APIs, Supabase

Mobile: Kotlin, Jetpack Compose, USSD flows, biometric authentication

Design and workflow: Material 3 / Material You, design systems, Figma, Git, GitHub, LDAP integration

Strengths: Product thinking, client communication, technical demos, mentoring

EDUCATION

Engineer in Computer Sciences — University of Computer Sciences (UCI), Havana, Cuba · 2017 – 2022

LANGUAGES

Spanish: Native · **English:** C1 Proficient, EF SET Certification