

Rossmel Abasto

Frontend | Fullstack Developer

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PROFESSIONAL SUMMARY

Frontend Developer with 3+ years of agency experience building multi-tenant SaaS, mobile apps and websites with React, Next.js, React Native and TypeScript (~1,800 commits across client products in Bolivia and the US). Growing into Fullstack with FastAPI, Node.js, SQLite/PostgreSQL, Firebase and Supabase. I integrate AI both into products (hybrid RAG, local and cloud LLMs) and into my daily workflow (Claude Code, agents), which lets me ship faster without sacrificing quality.

TECHNICAL SKILLS

Frontend & Mobile: React, Next.js (Pages y App Router), React Native, Expo, TypeScript, JavaScript, HTML5, CSS3 / Sass, Tailwind CSS, MUI, shadcn/ui, Redux Toolkit, i18n, PWA, Astro, GSAP, Motion

Backend & Data: Node.js, Express, Python, FastAPI, REST APIs, SSE, NextAuth, SQLite (FTS5, WAL), PostgreSQL, Prisma, Drizzle, Supabase, Firebase, Electron

Applied AI: RAG, Búsqueda híbrida (BM25 + embeddings), Evaluación de LLMs, Ollama, Groq, Gemini, OpenAI API, sqlite-vec, Claude Code, Agentes

DevOps, Quality & Tools: Git, GitHub Actions, GitLab, Docker, Linux (Arch), systemd, Cloudflare Tunnel, Tailscale, KVM / libvirt, pytest, Vitest, Vercel, Bruno, Figma

WORK EXPERIENCE

Fullstack Developer — Independent

Jan 2026 – Present | Cochabamba, Bolivia | Freelance

- Link'u (paid project): offline-first desktop app for a growing rural community's water billing (Electron, React, SQLite), with AES-256-GCM encrypted backups, auto-updates, 47 tests and cross-platform CI.
- SGPG: thesis project management system for UDABOL, used by the head of the Systems Engineering program (Next.js 16, Firebase), with AI-powered PDF summary and tag extraction (Groq), document versioning and audit trail.

Frontend Developer (Web & Mobile) — WANT Digital Agency / GeekLabs

Aug 2022 – Jan 2026 | Cochabamba, Bolivia | Internship — Contractor — Employee (2025–2026)

- Lead frontend developer of Vulcano (now CarX), GeekLabs' multi-tenant SaaS for auto repair shops, piloted at a real shop (944 of 1,131 commits): work orders, quotes, vehicles, revenue reports, calendar, CSV import, role-based dashboards and ES/EN i18n with Next.js, TypeScript, MUI, Redux Toolkit and NextAuth.
- Wired the frontend to Vulcano's AI module (built by the tech lead) that auto-generates the services of a work order.
- Built React Native/Expo mobile apps: Adsie, an ads network for Florida connecting local businesses, customers and influencers (434 of 497 commits); Vulcano's mechanic app (push notifications, service timer); One Life Fitness (a gym in Cochabamba and La Paz) and OneHand (physiotherapy appointments).
- Built the frontend of Bite, a multi-tenant digital menu and ordering SaaS for restaurants (Next.js App Router): QR table ordering, checkout, coupons, branches, plans and Google Maps.
- Built the WordPress website for LYNX Bolivia, an electronics and home appliance retailer.
- Worked alongside the tech lead (backend) integrating REST APIs, with code reviews and short delivery cycles under tight deadlines.
- Started as an intern (3 months), continued as a monthly-paid contractor and was formally employed from 2025 to 2026.

PROJECTS

AdvAI — Capstone · UDABOL (2026)

AI legal contract auditing with verifiable citations. Hybrid search: BM25 (SQLite FTS5) + bge-m3 embeddings fused with RRF over 3,267 articles and 971 supreme court rulings — retrieval hit@8 went from 42.9% to 80%. The model only picks keys from the sources shown and the quoted text is inserted by the system: 82.9% correct citations and 94.6% of clauses with no severe error in internal evaluation.

Technologies: Next.js 16, React 19, TypeScript, Python, FastAPI, SQLite FTS5, Ollama, RAG, SSE, pytest

EDUCATION

B.S. Systems Engineering — Universidad de Aquino Bolivia (UDABOL)

2021 – 2027 (expected) · Final semester; internal defense Dec 2026, external Mar 2027

Capstone: AdvAI — AI-powered legal contract auditing (hybrid RAG + LLMs).

Postgraduate Diploma in Software Development — Universidad de Aquino Bolivia (UDABOL)

2026 – in progress · 4 modules

Web Application Development — Solaning

2022 · Completed

Additional Training: Platzi, Coursera, Udemy, freeCodeCamp, Google for Education, W3Schools

LANGUAGES

Spanish (Native), English (Advanced (C1))

SOFT SKILLS

Problem solving, Autonomy, Working under pressure, Fast learner, Client communication, Technical writing