

YUTHRAMYS IBARRA

Creative Frontend Developer & AI Developer | React • Next.js • TypeScript • LLM agents

Barranquilla, Colombia (open to remote) | +57 302 666 5466 | yuthibarra@gmail.com

Portfolio: heyuthramys.codes | LinkedIn: linkedin.com/in/yuthramys-ibarra-a85a73359 | GitHub: github.com/YuthramysI

SUMMARY

Creative frontend developer and AI developer specialized in React, Next.js and TypeScript. I build modern, creative interfaces — interactive 3D, motion, real-time UI — and the intelligent systems behind them: multi-agent systems, LLM assistants that use function calling over real APIs, and WhatsApp, Messenger and n8n automations. As founder of Lua Tech, I deliver complete products for clients in Colombia, the U.S. and Latin America; previously a developer at CoastalSites, a U.S. web agency. I work with AI-assisted development (Claude Code, agents) to ship fast while keeping performance, accessibility and security in check.

SKILLS

Frontend and mobile: React, Next.js (App Router), TypeScript, JavaScript, React Native, mobile apps, HTML, CSS, Tailwind CSS, Three.js / WebGL, React Three Fiber, GLSL shaders, GSAP, Lenis, Vite

AI and automation: LLM APIs (Google Gemini, OpenAI, Anthropic Claude), multi-agent orchestration, function calling / tool use, streaming responses, AI agent architectures, prompt design, n8n, WhatsApp Business API, Meta Messenger API, Claude Code

Backend: Node.js, NestJS, REST APIs, Supabase, Firebase / Firestore, Zod validation, webhooks (HMAC verification)

Languages and data: TypeScript, JavaScript, Python, NumPy, data cleaning

Quality, security and delivery: Vitest, Playwright, axe accessibility checks, WCAG AA contrast and keyboard access, CI, Content Security Policy and security headers, rate limiting, Git / GitHub, Vercel, Cloudflare, technical SEO (schema.org JSON-LD, sitemaps), i18n

EXPERIENCE

Founder and Full-Stack Developer | AI Integration, Lua Tech Jan 2025 – Present
Development and AI integration studio for clients in Colombia, the U.S. and Latin America | Remote luatech.agency

- Built Campus Navigator IUB for Instituto Universitario de Barranquilla: an interactive 3D campus model, guided 360° walking routes to 8 campus zones and IUBot, an assistant that combines local intent matching with the Gemini API.
- Built a backend that connects a Gemini AI agent to the Meta WhatsApp and Messenger APIs for a client, with a CRM module, an admin dashboard and HMAC validation of incoming webhooks.
- Delivered a multivendor e-commerce platform and an ERP system for a freelance client.
- Integrated the WhatsApp Business API and n8n automations for small businesses (equipment rental, phone financing) to answer customers and route leads.
- Designed and built BodySlender, a Next.js site for a post-surgery recovery clinic in Peru with local SEO (15 services and 9 districts in schema.org data) and WhatsApp booking on every call to action.
- Audited a React 19, Vite and Firebase logistics dashboard for a client, found a critical Firestore data-modeling issue and wrote the remediation proposal.
- Use AI-assisted development (Claude Code, function calling, agents) to prototype and deliver quickly, and own the full cycle: discovery call, scope, design, build, deployment on Vercel or Cloudflare and post-launch support.

Software Developer, CoastalSites Mar 2024 – Dec 2024
U.S.-based web agency | Remote

- Developed and maintained responsive websites for the agency's U.S. clients, working remotely with an English-speaking team.

PROJECTS

Interactive portfolio with a live multi-agent AI system

heyuthramys.codes

- Next.js 16, React 19 and TypeScript; one WebGL2 particle field (React Three Fiber, custom GLSL shaders) carries the whole scroll story with GSAP and Lenis, with reduced-motion and no-WebGL fallbacks and keyboard access.
- Multi-agent system running live on Google Gemini: an orchestrator answers directly or delegates to research, analyst, developer and automation agents that call typed, Zod-validated tools; every step streams to the UI as NDJSON events, in English or Spanish.
- Provider-agnostic AI layer (Gemini, OpenAI, Anthropic, with a scripted fallback when no key is configured); API keys server-side, per-IP and daily rate limits, cancellation when the visitor leaves, CSP and security headers; Vitest unit tests and Playwright end-to-end tests on desktop, mobile, reduced motion and no-WebGL.

Campus Navigator IUB

campusnavigatoriub.online

- React 19, Three.js and React Three Fiber render a Draco-compressed 3D model of the campus; 360° routes play equirectangular video on an inverted sphere with calibrated camera keyframes.
- Route graph with shared intersections and a bounded LRU texture cache to keep GPU memory flat on long tours; fuzzy search (Fuse.js) for every room, lab and office; keyboard accessible and mobile friendly.

Lua Tech agency website

luatech.agency

- Trilingual (Spanish, English, French) scroll-driven site built with Next.js 16 static export, a custom GLSL shader hero in React Three Fiber, and GSAP ScrollTrigger with Lenis.
- Served from Cloudflare with security headers; sitemap, robots, Open Graph images and icons generated at build time.

Rick and Morty Explorer — study project (LLM function calling)

rickyandmorty-rust.vercel.app

- Next.js 16 and TypeScript app where a Gemini assistant answers by calling the live Rick and Morty API through four tools (search characters, get character, get episode, list episodes) with round and time limits.
- Streams answers to the browser with NDJSON; API client retries with exponential backoff and limits concurrency.
- API key kept server-side, Zod input validation, rate limiting and a nonce-based CSP; tested with Vitest and Playwright with axe accessibility checks, CI on every push.

EDUCATION AND CERTIFICATIONS

Full Stack Web Development, freeCodeCamp

2024 – 2025

Full Stack Development, Academlo

- Anthropic Academy courses (Claude)
- Adobe After Effects professional course, Udemy (2025)
- In progress: Oracle Cloud Infrastructure AI Foundations (Oracle University); Python for Developers and Python for Data Science (DataCamp); Hugging Face AI Agents Course

LANGUAGES

Spanish: native | English: technical — fluent reading of technical documentation and written communication with clients