

CARLO MIGUEL DY

● AVAILABLE · JOINING A TEAM

Senior Fullstack Engineer — React · Next.js · NestJS · Postgres · end-to-end

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SUMMARY

Senior Fullstack Engineer — **7+ years** software, **4+ years** Web3 — who ships products end-to-end: React/Next.js frontends, NestJS/Hono backends, PostgreSQL data layers, and CI/CD delivery to prod. Built **Rumour** (social trading, [rumour.app](#)) and **Limitless Exchange** (prediction markets on Base) from zero as the founding frontend/fullstack engineer. Built and maintained **~37 protocol MCP servers** (~176 tools across EVM + Solana), integrated into AltLLM's multi-model LLM platform. Daily AI-native practice with Claude Code, Codex, and multi-agent orchestration against real product workloads.

Core stack → React · Next.js · NestJS · Postgres · TypeScript · Solidity · Tailwind · Playwright

7+ YEARS SOFTWARE ENGINEERING	4+ YEARS WEB3 / DEFI	\$3M PRE-SEED SECURED (LED BY 1CONFIRMATION, SEP 2024)
~\$1M ETH COMMUNITY NFT RAISE SHIPPED END-TO-END	37 PROTOCOL MCP SERVERS ~176 TOOLS ACROSS EVM + SOLANA	0 DATA LOSS — MONGODB → POSTGRESQL MIGRATION ON LIVE PREDICTION MARKET

PROFESSIONAL EXPERIENCE

Independent AI-Native Product Studio May 2026 – Present · Remote
Independent AI-Native Product Engineer / Technical Founder

Built **saas-launch**, a provider-aware production system with phase gates, persistent handoffs, independent review, and evidence-backed verification; used it for production-shaped vertical SaaS and interactive systems, with Labada and Kintab preparing for local launch.

AltLayer Sep 2024 – May 2026 · Remote
Senior Fullstack / Product Engineer — Founding FE on Rumour & Autonome · MCP platform owner

Owned frontend to backend end-to-end across six products — built and maintained **~37 protocol MCP servers** (~176 tools across EVM + Solana) for AltLLM's multi-model LLM platform, migrated Next.js to a stateless Hono API, and shipped a public developer API with tiered rate-limiting and hosted Swagger UI.

- MCP platform (sole owner, BE):** built and maintained ~37 protocol MCP servers (~176 tools across EVM + Solana) integrated into AltLLM's multi-model LLM platform with user-confirmed WRITE operations, covering swap, staking, lending, DEX, wallet, bridge, and prediction-market integrations (Spark, EigenLayer, 1inch, OKX, LI.FI, OpenSea, Kalshi, DefiLlama); architected one focused MCP server per protocol — keeping each tool set small and cohesive with guided schemas and READ-first defaults for tractable, reliable tool selection — and migrated stateful Next.js to a stateless Hono API with no public-API breakage; dual-model LLM validation harness reached **~97% pass** across ~37 protocols / ~176 tools.
- Rumour — social trading platform (FE lead):** shipped from a single React + Vite codebase as a PWA, Farcaster Miniapp (mini-browser app), and LINE DappPortal — enabling three distribution channels with one build; integrated Hyperliquid (perpetual futures exchange), OKX + LI.FI (cross-chain bridge providers), and Tencent Chat for the social layer.
- 8004scan (fullstack):** cross-platform ERC-8004 agent explorer — responsive web, PWA, and Capacitor-wrapped iOS + Android; conversational chat (OAuth + SSE streaming) and public developer API (API-key auth, tiered rate-limiting, OpenAPI + hosted Swagger UI).
- Architecture + delivery:** introduced DDD (domain-driven design) across Wizard / RaaS (Rollup-as-a-Service), adopted by subsequent surfaces; assumed full MCP platform ownership when BE was redeployed; shipped Autonome, AltLLM, and AltClaw alongside the full product team.

Limitless Labs Dec 2023 – Sep 2024 · Remote
Senior Blockchain Engineer — Founding fullstack engineer · Limitless Exchange prediction markets on Base

Owned all four codebases (API, smart contracts, indexer, frontend) — NestJS/Fastify/PostgreSQL with DDD, MongoDB → PostgreSQL migration with **zero data loss**, and manual market-creation workflow collapsed to a single operator action.

- Backend architecture:** NestJS, Fastify, TypeScript, Prisma/TypeORM, and PostgreSQL using domain-driven design; one codebase safely targeting Base Mainnet / Sepolia / UAT / local; migrated the datastore from MongoDB to PostgreSQL with **zero data loss**.
- End-to-end automation:** reduced a manual, error-prone market-creation workflow (multiple hand-offs across FE, API, smart contract, and Gnosis Safe multisig approval) to a **single operator action**; eliminated a class of operational errors entirely.
- Built custom FPMM (Fixed Product Market Maker) v5 + v6 extending Gnosis Conditional Tokens Framework; Envio blockchain indexer; Slack/Discord trade-alert bots; Hardhat + Foundry test coverage.
- Frontend: Chakra UI, Privy wallet auth, Forecaster framework; led full UI/UX redesign with dark mode and real-time portfolio calculations; ran code

Atlantis World / Limitless Labs

Dec 2021 - Dec 2023 · Remote

Lead Blockchain Engineer — Founding engineer, promoted to lead · later rebranded to Limitless Labs

- Led JS → TS migration of the React + Vite game client, ran the live NFT-sale shift that raised ~\$1M ETH (327.14 WETH on Polygon) end-to-end, and owned 13 of 18 DeFi/Web3 protocol integrations.**
- Led JS → TS migration of the React + Chakra UI + Vite game client; authored the Next.js sale dApp (RainbowKit + wagmi), a Solidity ERC-721 contract, and a Node.js Merkle allowlist service.
 - Owned 13 of 18 DeFi/Web3 protocol integrations end-to-end (Yearn, 1inch, Balancer, Aave, Perpetual Protocol, Moola, Lens, Filecoin, Snapshot, POAP, PoolTogether, Swapr); oversaw 5 more.
 - Deployed and verified contracts across Ethereum, Polygon, and Optimism.

FilledStacks

Apr 2021 - Feb 2022 · Remote

Software Engineer

- Shipped multiple client apps from a single Flutter codebase via multi-tenant prebuild scripts, with Codemagic CI/CD and TDD in Dart.**
- Built Flutter/Firebase apps end-to-end; authored multi-tenant prebuild scripts so multiple client apps shipped from one codebase; built Codemagic CI/CD; TDD in Dart; contributed to widely-used open-source Flutter packages.

Infina, Ltd.

Aug 2020 - Jan 2022 · Philippines / Remote

Lead Software Engineer

- Led a 3-engineer team delivering a production Angular Ionic data-analytics app on AWS EC2 + Nginx across dev / staging / prod.**
- Led the team building an Angular Ionic mobile data-analytics app (bar/line/pie/composite charts) on AWS EC2 behind Nginx; optimized queries over large datasets; mentored juniors and drove code reviews.

Earlier: *Freelance Full-Stack Engineer (2019-2021) — web/PWA apps, dashboards, custom client systems.* · *Fligno — Software Engineering / QA Automation Intern — Robot Framework, Appium, Selenium, React Native test automation.*

TECHNICAL SKILLS

FRONTEND	React, Next.js, Vue.js, Vue Composition API, Nuxt.js, Vite, HTML, CSS, Tailwind CSS, Material UI, Chakra UI, shadcn/ui, Framer Motion, React Hook Form, Zod, Farcaster Frames, PWA, Figma-to-production
BACKEND	Node.js, NestJS, Hono, Fastify, Laravel, PHP, Django, Django REST Framework, Serverless Framework, AWS Amplify, Python, REST APIs, PostgreSQL, MongoDB, Redis, Prisma, TypeORM, Supabase, Sentry, domain-driven design
LANGUAGES	TypeScript, JavaScript, Solidity, Python, PHP, Go, SQL
TESTING	Playwright, Synpress, Vitest, Jest, unit / smoke / E2E / API integration, manual QA
INFRA	Vercel, GitHub Actions, Docker, Docker Compose, Kubernetes, Helm, GCP, AWS, Nginx
MOBILE	React Native, Flutter, Ionic Framework, Capacitor (iOS / Android), PWA
WEB3	Solidity, Hardhat, Foundry, Viem, Ethers, Wagmi, TypeChain, Gnosis Safe SDK, Web3Auth, Coinbase Developer Platform Wallets, Tenderly
WEB3 PROTOCOLS	1inch, LI.FI, OKX, Balancer, Uniswap, OpenSea, Conditional Tokens, Envio, The Graph, Hyperliquid, Privy
CHAINS	Ethereum, Base, Polygon, Optimism
AI / AGENTIC	MCP servers & tools, multi-agent orchestration, harness engineering, OpenRouter, Claude Code, Codex, Multica AI, Cursor, OpenClaw, Hermes Agent, Windsurf, Claude Code Dynamic Workflows, obra/superpowers

SELECTED IMPACT

- **Manual → 1-click** market creation at Limitless Exchange — FE → API → contract → Gnosis Safe.
- **~37 protocol MCP servers** (~176 tools · EVM + Solana) built and integrated into AltLLM's multi-model LLM platform.
- Approximately **\$1M ETH** community NFT raise shipped end-to-end at Atlantis World.
- **~97% pass** — dual-model LLM validation harness over ~37 protocols / ~176 MCP tools.

ON-CHAIN FOOTPRINT

ATLANTIS	ERC-1155 on Polygon: 0x92e8...e949 (Polygonscan verified) · ERC-721 sale contract — built & deployed · \$1M ETH raise
LIMITLESS	FPMM v5 + v6 (Gnosis CTF extension) · Base Mainnet + Base Sepolia · LMSR market maker · Envio indexer

EDUCATION

Mindanao State University — Iligan Institute of Technology (MSU-IIT)

B.S. Information Technology, Database Systems