David A. Tamayo

AI Solutions Engineer · Software Developer

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Quito, Ecuador · Remote or hybrid

PROFILE

AI Solutions Engineer with 4+ years building software, most of it in production for international clients. I turn business problems into working systems: I design the architecture, build the LLM pipelines and the product around them, and keep security in the loop from day one. Recent work includes a multi-model AI engine that measures brand visibility in ChatGPT, Gemini, Claude, Grok and Meta AI, a configurable evaluation engine for a national housing certification, and a WordPress-to-Next.js migration. A background in biotechnology and bioinformatics gives me a research mindset and comfort with data.

SKILLS

AI & LLMs: LLM applications, AI agents, RAG, prompt engineering, LLM evaluation, OpenAI / Claude / Gemini APIs, embeddings, AI-assisted development

Solution design: system architecture, API design, data modeling, product scoping, platform migrations, performance, SEO and AI-search optimization

Engineering: TypeScript, Python, JavaScript, C#/.NET, SQL, Scala, Ruby · Next.js, React, Node.js, Express, Vue, Nuxt, Angular, Ruby on Rails, Tailwind, WordPress

Cloud & data: PostgreSQL, Supabase, MongoDB, MySQL, Docker, Linux, CI/CD, GitHub Actions, Vercel, AWS (fundamentals), workflow automation

Security: OWASP Top 10, secure code review, authentication and access control, threat modeling, Linux hardening

EXPERIENCE

Prex Technologies · Software Engineer — Feb 2026 – Present · Quito, hybrid

- **Asoma:** designed and built the AI engine of a SaaS that measures how ChatGPT, Gemini, Claude, Grok and Meta AI describe a brand versus its competitors: weekly multi-model measurement with full answers and citations stored for audit, a 0–100 visibility score, share of voice, source intelligence and four agents that turn findings into actions.
- **CASA Ecuador:** built the evaluation engine, admin panel and internal modules of the official CASA sustainable-housing certification, run by the CEES under an agreement with Ecuador's Ministry of Infrastructure and Technology (MIT). The engine is configurable, so new evaluations, criteria, credits and levels can be added without code; verifiers approve evidence and certificates are validated by QR.
- **Concreto:** made the construction marketplace findable by Google, Bing and AI search agents (2,174 URLs in the sitemap, structured data on every page type, llms.txt, AI crawlers allowed), automated internal tasks and built sales KPI dashboards.
- Design back-end services and web platforms with .NET, Next.js, Python, TypeScript and MySQL, including secure REST APIs and data-matching and transaction modules.
- Maintain CI/CD pipelines and containerized deployments with Docker, and use LLM-assisted workflows to speed up code generation, testing and debugging.

Freelance · AI solutions & software — Aug 2022 – Present · Remote

- **SIGUE Network (2025 – present):** built and ran the WordPress site, then led its full migration to Next.js with an Express back end: 25+ routes in Spanish and English, events, blog, donations and member areas, with much faster, fully responsive pages.
- **Stupendastic (2025):** delivered 10–15 internal automations in Python on Monday.com and Dropbox, plus dashboards to track every team member's tasks; saved the team 10+ hours a week of manual work.
- **AliceTrader, Tastyware (2024 – 2025):** built the trading app front end from scratch in Nuxt, Vue and Vuetify with its real-time integrations, routing middleware, a real-time notification system and cookie-based auth with token refresh; cut data load times by 30% by reworking API consumption.

- **CafExporto:** built the WordPress site, then migrated its whole design and CSS to Astro: 50 fast static pages, one per coffee lot.
- **Web Minds Studio:** improved a five-language Next.js and TypeScript studio site with server-side rendering for SEO and speed.

MVP · Software Engineer (front-end focus) Apr 2024 – Jun 2025 · Remote

- Led the migration of the core front end to Next.js and TypeScript, improving maintainability and type safety.
- Resolved critical technical debt in the deployment pipeline, improving availability of business-critical features.

Pelom · Software Engineer Apr 2024 – Sep 2024 · Remote

- Built sections and user-engagement features of a restaurant menu SaaS, turning business requirements into product.

Torre · Software Engineer May 2023 – Dec 2023 · Remote

- Fixed medium to critical bugs in Scala, Nuxt and Vue on an AI-powered hiring platform, and built recruiter outreach through chatbots on WhatsApp, Torre Messenger and email.
- Standardized local development with Docker, shortening onboarding for new engineers.

Microverse · Code Reviewer & Technical Mentor Jan 2023 – Apr 2024 · Remote

- Reviewed about 150 code submissions a week, mentored 50+ students and resolved 300 issues through review, with a 96% reviewer rating.

Universidad de las Américas (UDLA) · Research Associate, bioinformatics & data Oct 2018 – Jan 2021 · Quito

- Automated processing and analysis of large genomic and proteomic datasets with Python, speeding up research timelines.

EDUCATION

MSc Software Engineering and Computer Systems · Universidad Internacional de La Rioja (UNIR) 2026 – Present
Software quality, development methodologies, web cybersecurity and project management.

Master's in Bioinformatics · Universidad Internacional de Valencia (VIU) 2024 – Present
Computational workflows on AWS, large-scale data analysis in Python and R, Linux environments.

BEng Biotechnology · Universidad de las Américas (UDLA) 2016 – 2021
GPA 3.5/4.0. Statistics, research methodology and scientific data analysis.

Full-Stack Web Development Program · Microverse 2022 – 2023

LANGUAGES

Spanish (native) · English (professional working proficiency)

CERTIFICATIONS

AWS Certified Cloud Practitioner (in progress) · Python for Data Analysis (Udemy) · Scala and Play Framework (Udemy)