

Alberto Gálvez Gálvez

CTO & Software Engineer · Software Architecture, Full-stack, Applied AI & DevSecOps

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PROFILE

Full-stack software engineer and CTO. I design and build our own products in production, offline-first digital tourism and AI assistants, and I am accountable for everything technical in the company. My background is in cyber defence (a cyber range for the Spanish Ministry of Defence) and enterprise blockchain: security and quality by design.

EXPERIENCE

CTO 01/2026 – present

Alpelupe Soluciones S.L. · Águilas, Spain (hybrid)

- Exploravia: architecture and technical leadership of the new multi-tenant, offline-first travel-guide platform for public and private clients: web and white-label native apps from a single codebase, self-service dashboard, 360° video, audio guides, historical recreations made with generative AI and augmented reality.
- TUDI: AI assistant over chat (embeddable widget), real-time phone voice and WhatsApp. Tool-using agent with RAG and a decoupled LLM provider, plus an Insights dashboard with analytics and heat maps.
- Platform: clean architecture, infrastructure as code, CI/CD with automatic rollback, observability and continuous quality and security analysis. Clients' WordPress website portfolio.
- Leadership: budgets, technical specifications, planning and coordination of the team and freelancers. Digitalisation provider in Spain's Kit Digital, Kit Consulting and Kit Espacios de Datos programmes.

Software Engineer (Blockchain & Cybersecurity) 07/2025 – 01/2026

ANTS Research Group · University of Murcia

- CyberSOC Pymes (with Inforges): designed and deployed the enterprise blockchain module (Hyperledger Fabric) that brings traceability to threat-intelligence sharing and audits privacy-enhancing policies (PET) before sharing via STIX/MISP.

Software Engineer · QA · DevSecOps 07/2023 – 07/2025

CyberDataLab, University of Murcia

- COBRA, a cyber range for the Spanish Joint Cyberspace Command (Ministry of Defence), taken from prototype (TRL 4) to operational product (TRL 8-9): Python microservices, DevSecOps and continuous integration, observability, requirements, architecture and contractual test plans.
- SCORPION, its civilian version: master's thesis on real-time observability for cyber ranges, validated on the platform.

Full-stack Web Developer 07/2020 – 07/2023

Alpelupe Soluciones S.L. · part-time

- Exploravia and web projects for private clients and public programmes such as Kit Digital: React and TypeScript, NestJS, PHP, WordPress and WooCommerce, DNS and CDN, accessibility audits.

Founding backend collaborator 01/2025 – 07/2025

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- Built the foundation and first versions of the backend from which the platform evolved, and mentored the frontend team on the backend.

EDUCATION

MSc in Software Engineering · University of Murcia 2023 – 2025

Average 9.37/10 · Thesis 9.4 · Highest honours in Secure Software · Class representative

BSc in Computer Engineering, Software Engineering track · University of Murcia 2019 – 2023

Average 8.29/10 · Thesis 9.4 · Highest honours in Programming Technology, Algorithms and Data Structures and Project Management · Undergraduate research assistant

CERTIFICATIONS, LANGUAGES & AWARDS

Scrum Manager: Scrum Master & Agile Foundation (Expert level) · Google Project Management · English C1 (Cambridge CAE) · Honourable Mention for Academic Excellence (Faculty of Computer Science, UMU) · Murcia Region Informatics Olympiad: 1st place (2019) and runner-up award (2018), graphics category

SKILLS

Software architecture · Full-stack: TypeScript, NestJS, React, React Native · Applied AI: LLMs, RAG, agents, voice · Cloud and infrastructure as code: Docker, Ansible, Terraform, CI/CD · Observability: Grafana, Loki, Prometheus · Quality and DevSecOps · Python · MongoDB, Redis, vector databases · Hyperledger Fabric