Alvaro Torres
Senior Lead Software Engineer

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🌐 **English:** Professional (Spoken and written)   🌐 **Spanish:** Native

PROFILE

Senior IT & Digital Transformation Leader with over 15 years of experience delivering scalable software solutions across multiple industries. Proven expertise in driving **digital transformation initiatives**, optimizing business processes, and aligning technology strategy with organizational goals. Highly skilled in designing, deploying, and modernizing software architectures to improve efficiency, resilience, and long-term competitiveness.

Extensive background spanning roles from Software Developer and Lead Developer in enterprise environments to Technical Lead in high-growth startups. Deep technical expertise across **full-stack monolithic systems, microservices architectures, cloud-native platforms, and web and mobile applications**.

Recognized as a strategic problem solver who leverages emerging technologies—including **AI-driven solutions and automation**—to streamline processes and prepare organizations for future technology demands. An effective communicator and leader, adept at collaborating with executives, stakeholders, and cross-functional teams to deliver high-impact outcomes.

Well-positioned to serve as a **Digital Transformation Manager**, helping organizations modernize their IT landscape, improve operational processes, and become fully prepared for the **AI, data, and cybersecurity challenges of 2026 and beyond**

PROFESSIONAL EXPERIENCE

Senior Lead Software Architect.   **September 2025 – January 2026**

Evooluir. Freelance - Remote.

Architected and developed a cloud-native, wellness and personal development platform. Engineered a multimodal microservices ecosystem integrating mobile apps, AI-driven coaching, and offline data processing. Orchestrated the system using AI-augmented dev tools (Claude Code, OpenCode).

Multimodal AI Coaching & Voice: Developed a voice chat pipeline featuring offline transcription (Whisper), real-time TTS (Piper ONNX), and conversational logic (Llama 3.2 via Ollama & OpenAI) to provide personalized, multilingual wellness coaching.

Backend & Infrastructure: Designed a Go-based API (Gin/GORM) for core logic and integrated Python FastAPI/gRPC services for AI tasks. Established Infrastructure as Code (IaC) via Pulumi on AWS and automated CI/CD with GitHub Actions. PostgreSQL, JWT, Firebase Auth, OpenTelemetry, Swagger/OpenAPI.

Advanced Semantic Search: Built a vector-based search engine using Qdrant and CLIP/Sentence Transformers, allowing users to search through personal journals and image galleries via meaning rather than just keywords.

Cross-Platform Delivery: Launched a unified mobile/web codebase using React Native 0.81 and Expo, administrative dashboard built in Preact for content management and system monitoring.

Privacy & Scalability: Implemented a "privacy-first" architecture by deploying local LLMs and offline image processing (Stable Diffusion/BLIP), reducing cloud API dependency and latency.

System Orchestration: Via Docker Compose and Traefik, utilizing Redis (Valkey) for asynchronous message queuing between AI services and the core backend.

AI & Computer Vision: Python (FastAPI, gRPC), LangChain, Qdrant (Vector DB), Whisper, CLIP, BLIP, Stable Diffusion, Ollama (Llama 3.2), Piper TTS, Sentence Transformers.

Mobile & Frontend: React Native (Expo), TypeScript, Preact, Vite, Web Audio API, React Navigation.

Infrastructure & DevOps: AWS (EC2, S3, IAM, VPC), Pulumi, Docker Compose, Redis (Valkey), Traefik, GitHub Actions, Watchtower.

Senior Lead Software Architect.   **January 2024 – December 2025**

Baukunst – Patrimonio Virtual. Valencia, Spain. Freelance - Remote.

Infrastructure as code with Pulumi in AWS, CD/CI, logging cloud systems jobs.

Several Microservices for users, notifications, made in NodeJS and Golang in the backend connected with Aws SQS, Redis PubSub and gRPC. Also Redis for caching.

Auth users systems back end with golang and front end with Vue.

BackEnd: Software Architecture · Cloud Infrastructure · Cloud Services · Go · GORM · Microservices · Redis · PostgreSQL · MongoDB · Pulumi · gRPC · Message Queue · Amazon SQS · Node.js · JavaScript · AngularJS

Senior Cloud Software Engineer.   **August 2021 – January 2024**

Humn. London, UK. Remote.

Analyzing geospatial risk factors of cars to provide a truly comprehensive risk assessment for fleet companies.

Working on the development of an operational with a large scale, highly available distributed system.
Creating and up-keeping a dynamic platform driven by real-time events, emphasizing the following domains:
- Created and managed a system that ingested thousands of car messages per second.

- Developing, maintaining and executing 20+ micro-services, Lambdas and APIs with a focus on architecture, with their respective unit, application and end to end tests.

- Comprehensive testing across various levels (unit, application, system)

- Continuous Integration/Continuous Deployment (CI/CD) workflows

- Infrastructure management

- Oversight of monitoring and alert systems

- Development of the website as the interface for the users

Company bought by AON:
https://aon.mediaroom.com/2024-03-07-Aon-Acquires-AI-Powered-Platform-to-Help-Fleet-and-Mobility-Clients-Make-Better,-Insight-Driven-Decisions

Cloud Stack: Golang, GraphQL, Jenkins, ArgoCD, Docker/Compose, Redis, Terraform, Grafana/Prometheus, AWS (Lambda, API Gateway, SQS, AppSync, DynamoDB, S3, etc), Kubernetes, Helm Charts, shell scripting
FrontEnd: React (Typescript), Apollo GraphQL, NX.

Senior Lead Software Architect.   **February 2020 – July 2021**

Circles. Socotree. Berlin, Germany. Remote.

Analyzing, building and developing the app that helps people make friends faster. Managed to get 2000 users in Berlin city in 3 months before the pandemic.
Using a microservices architecture on the backend on aws ec2 servers and connecting all of them with GRPC and using GraphQL as endpoint, running docker compose to glue it all together, and react native as the front end app for android and iphone.
Backend: Golang, GraphQL, GORM, GRPC, Websockets, Postgres, Redis, Docker, Docker compose, Nginx Reverse Proxy, Shell Script, GitHub actions
Frontend: React Native for android and IOS, Websockets, Google Maps, react-native-gifted-chat
Server Cloud: Amazon AWS EC2, AWS S3, Postgres Database, App Center for distribution
Management: Slack, GitHub, Trello, Jira
Stores: Google play, Apple Store with TestFlight

Senior Lead Software Architect.   **August 2018 – December 2019**

Entravex. Bern, Switzerland. Remote.

Analyzing, building and developing the system to allow guests check in at the hotel within the app before arriving. Guests would send their info plus pictures of their ID and selfie. The hotel can verify in real time the guests that are coming before they arrive physically and allow them directly to go to their room and open it with the app. Also using cloud technologies to autocomplete their address and check if there are humans in their pictures and there is the gender that they claim they are. Using Salto locks.

Backend: Golang, Gin Framework, GORM, Postgres
Frontend: NativeScript for android and IOS
Server: Amazon AWS Elastic Beanstalk, Amazon Rekognition, Postgres Database, Google maps
Management: Slack, BitBucket, Git

Senior Software Engineer.   **March 2017 – June 2018**

Pirate Studios. UK. Remote.

Analyzing, building and developing the systems to allow musicians to book and use the rooms where all devices and instruments are interconnected for rehearsing, filming or recording. Working on a team of 4 developers all remotely.

Backend: Node, Ruby, Craft CMS, Google docs
Frontend: React, Redux
Server: Google Cloud, Heroku, google docs api, continuous integration systems, server less functions, twilio
Management: Pivotal Tracking, Jira, Slack, GitHub

Senior Lead Software Architect.   **September 2015 – February 2017**

Cook At Home. Tallinn, Estonia.

Analyzing, building and developing the social network to allow cooks all over the world to cook at peoples' homes. Leading a team of 3 developers and a designer remotely.

Backend: NancyFx, C# Core, Entity Framework Core, SQL Server, TSQL, Bitbucket Git system
Frontend: Bootstrap, AJAX, JQuery, HTML5, Razor, CSS3, JSON, ReactJS, AngularJS, Google maps
Server: Azure cloud system
Management: Trello backlog, Slack

Senior Software Engineer.   **April 2014 – January 2017**

Ryanair. Dublin, Ireland.

Developing in a big team under an agile system, using Jira tickets, fixing issues and providing solutions. Being part of the team developing the airplanes booking tickets system website and being also part of the Android application team.

Backend: C#
Frontend: AngularJs, AJAX, HTML5, CSS3, JSON
Mobile: Android java
Management: Jira ticketing system

Various positions spanning from January 2001 to March 2014:

- **Architect, Analyst and Lead Full stack Developer of a team of 4:** CEPSA. Seville, Spain.
- **Architect, Analyst and Lead Full stack Developer:** Mont Royal. Berlin, Germany.
- **Lead Backend Developer:** c. London, UK.
- **ASP.NET C# Web Backend Developer:** Primacall. Berlin, Germany.
- **Analyst, Programmer desktop applications and ASP.NET Visual Basic.NET Web Backend Developer. Webmaster, Database and Server Administrator.** Golfbidder LTD. London, UK.
- **Analyst, ASP.NET Visual Basic.NET Web Back-End Programmer, Database and Server Administrator:** Nationwide Utilities. London, UK
- **IT Desktop Applications Programmer and Web Back-End Programmer:** COSPA S.A. Madrid, Spain.

PERSONAL PROJECTS & LEARNING

Passionate about exploring and working with emerging technologies, I engage in hands-on projects to enhance my skills and contribute to the open-source community. Currently, I am focusing on the following:

- **Kubernetes**: Developing and managing containerized applications, contributing to scalability and resilience in deployment strategies.
- **Rust**: Leveraging Rust's performance and safety features to build efficient and reliable systems.
- **LLaMA AI Systems**: Exploring advanced AI models to innovate and solve complex problems in machine learning.
- Research, design and build GenAI products using RAG, model fine-tuning and AI Agents
- **Python**

ACADEMIC EDUCATION

Technical Engineering in Computer Systems - Universidad UNED - 2000 – 2004

Professional Formation in IT Programming for Business - San José. Cadiz, Spain - 1997 – 1999

Courses: Sql Server, ASP.NET, C#