

# Fernando Arias Santos

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## Skills

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**Languages:** TypeScript, JavaScript, SQL, HTML, CSS, Python  
**Backend:** Node.js, Express.js, GraphQL, AWS SQS, FastAPI  
**Frontend:** React, Next.js  
**Databases:** PostgreSQL, Redis, DynamoDB  
**Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform  
**Tools & Practices:** Jest, Git, CI/CD, Agile, SOLID  
**AI & Agents:** GitHub Copilot, Agentic Workflows, Gemini API, Prompt Engineering

## Experience

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### Z1 Digital Studio → Five Koalas (spin-off)

Sevilla, Spain (Remote)

SENIOR BACKEND DEVELOPER

2021 - 2025

- Developed and optimized backend services for Waking Up, a leading meditation platform with 300K-500K active users worldwide serving millions globally. Stack: Node.js, Express.js, GraphQL (Apollo Server), PostgreSQL, AWS, Docker, Kubernetes.
- Led a critical migration of the Making Sense podcast subscription management system from piano.io to custom-built platform, ensuring zero payment failures and preventing duplicate charges. Increased platform revenue from 500K to 1M USD/month post-migration.
- Implemented comprehensive observability using Datadog, data loaders to prevent N+1 query problems, and Redis caching for performance optimization. Achieved significant API performance improvements through data-driven optimization.
- Architected and developed GraphQL APIs and RESTful services with a product-focused, iterative-incremental mindset, collaborating closely with product, design, analytics, and mobile teams.
- Implemented CI/CD pipelines and maintained high code quality standards through Jest and Mocha testing frameworks, GitHub, and code reviews.

### Homeria Open Solutions

Spain

FULL-STACK DEVELOPER (DEVOPS, BACKEND)

2016 - 2020

- Developed high-scale food delivery platforms for Foster's Hollywood and Burger King across Spain and Portugal using TypeScript, Node.js, Angular, and Spring Framework.
- Architected cloud infrastructure on AWS, designing and implementing scalable solutions using EC2, Lambda, Fargate, RDS, DMS, DynamoDB, Cognito, and API Gateway.
- Managed infrastructure as code using Terraform, Docker, Vagrant, and Ansible in a small, multidisciplinary T-shaped team environment.

## Projects

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### Senda

AI, React, Next.js, Python, FastAPI

AI-powered guided meditation platform featuring LLM-based generative script creation (Google Gemini API), neural audio synthesis (TTS), and prompt engineering for structured content generation. Built with hexagonal architecture (FastAPI) and React/Next.js CMS. Final Degree Project receiving Honors with maximum grade.

🌐 github.com/fariassdev/send-api | 🌐 github.com/fariassdev/send-cms | 🌐 senda-cms-tfg.vercel.app

### Twodo

React, Node.js, Typescript, Supabase

Side project started for fun and evolved as a household coordination platform for couples to manage tasks, expenses, and shopping lists collaboratively. Mobile-first React 19 app with Supabase backend, real-time sync, and offline-first capabilities using TanStack Query and IndexedDB.

🌐 twodo.co | 🌐 github.com/fariassdev/twodo-web

## Education

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### Bachelor's Degree in Computer Science

Universitat Oberta de Catalunya, Spain

Mostly completed while working full-time as Backend Developer at Z1 Digital Studio.

2020 - 2026

### Higher Vocational Diploma in Web Application Development

Spain

Awarded the regional extraordinary prize for highest academic performance.

Extraordinary Prize