

# JONATHAN FERNANDEZ

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## Summary

I'm a hands-on engineering leader with a decade of experience building and scaling software teams, products, and systems. Over the years, I've led teams from early startup stages to mature engineering organizations. I combine strong technical depth with a practical, people-first approach to leadership.

My work often involves defining architectures, setting up engineering processes, mentoring developers, and making sure code quality and velocity stay balanced.

I'm comfortable jumping between high-level strategy and low-level code.

## Skills

### Leadership & Management:

- Engineering Management
- Project Management
- Technical Leadership
- Systems Design
- Mentoring
- Hiring

### Backend Development:

- Node.js, TypeScript, and NestJS
- Java Spring Boot
- C++
- Lua
- Microservice Architectures and Event-Driven Architectures
- CQRS, Domain-Driven Design (DDD), and Hexagonal Architecture

### Frontend Development:

- React & Next.js
- Tailwind CSS

### Databases:

- MongoDB
- PostgreSQL
- MySQL
- Redis

### DevOps & Infrastructure:

- Docker & Kubernetes
- AWS & Terraform
- Kafka & Redis
- CI/CD
- OpenTelemetry, Prometheus & Grafana

## Experience

### Founder

Copy Signals AI - [copysignals.ai](https://copysignals.ai) | February 2025 - Current

- Founded and developed an AI-powered trading signals platform that provides automated copy trading capabilities.
- Architected and built scalable backend infrastructure to handle high-frequency market data and signal processing.
- Developed full-stack web application with real-time dashboards, with a microservices architecture and applying different design patterns and architectural patterns like DDD, CQRS, Event-Driven Architecture...

### Engineering Manager - Technical Leader

DialApplet (Tecsible S.L.) | Valencia, Spain | September 2021 - November 2024

- **Built and scaled an engineering organisation of 25+ engineers**, leading the **modernisation of the company's tech stack**, the launch of a new software platform, and the successful migration of clients from the legacy system.
- Defined the **engineering culture, technical vision, and performance metrics** aligned with business goals.
- Implemented agile practices, CI/CD pipelines, and automation tools that improved productivity and delivery speed.
- Led technical **hiring and interviewing**, building a high-performing, multidisciplinary engineering team.

- **Mentored engineers** across all levels, helping them grow, collaborate effectively, and improve overall satisfaction and performance.
- Remained **hands-on in full-stack development**, ensuring alignment between strategy and execution.
- **Tech stack:** React, Redux, Java Spring Boot, NestJS, Node.js, TypeScript, Microservices, MongoDB, Redis, Asterisk (PBX), AWS, Docker, Kubernetes, Kafka, Kamailio, SIP, Terraform, CI/CD, and cloud infrastructure.

## Lead Software Engineer

DialApplet (Tecsible S.L.) | Valencia, Spain | April 2020 - September 2021

- Led a small team of 4 engineers while staying deeply involved in **full-stack design and development**.
- Worked closely with stakeholders to translate business requirements into solid technical solutions and roadmaps.
- Implemented agile workflows and development tooling that improved delivery speed and code quality.
- **Tech stack:** JavaScript, CSS, HTML, C++, PHP, PostgreSQL, Asterisk, Docker, Cloud and On-Premise infrastructure, ...

## Software Engineer

DialApplet (Tecsible S.L.) | Valencia, Spain | October 2018 - September 2019

- Contributed to the full-stack development and maintenance of the company's core software product.
- **Tech Stack:** JavaScript, CSS, HTML, C++, PHP, PostgreSQL, Docker, Cloud and On-Premise infrastructure, Asterisk, ...

## Game Development - Founder & Technical Lead

Self Employed | Remote, EU/USA | February 2015 - January 2019

- Founded and operated **online multiplayer platforms**, reaching over **200,000 users** across multiple projects.
- Designed and developed **server-side systems, gameplay logic, and content frameworks**.
- Managed **live production environments**, ensuring high uptime, performance, and scalability for active player bases.
- Built **monetization systems**, community engagement tools, and content updates to keep the platforms growing and profitable.
- Coordinated **distributed teams** handling design, coding, mapping, and user management across different time zones.
- Gained deep experience in **product development, technical operations, and user experience** in real-time environments.
- **Tech Stack:** Lua, C++, PHP, NodeJS, MySQL, SQLite, ...

## Software Engineer

GnommoStudios S.L. | Valencia, Spain | November 2016 - July 2017

- Developed and maintained backend systems for multiple software projects.
- **Tech Stack:** NodeJS, TypeScript, Loopback (framework), and MongoDB.

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## Personal Projects

### NestJS Microservices Framework

An opinionated framework for building clean and scalable microservices using NestJS with Hexagonal Architecture,DDD, CQRS, and Event-Driven patterns.

Solves some pain-points teams face when dealing with distributed systems:

- Service communication via events
- Centralized logging and tracing
- Observability with Grafana dashboards
- Transaction management

Out-of-the-box support: Kafka, Redis, MongoDB, PostgreSQL, OpenTelemetry, Prometheus, Grafana, Docker, Kubernetes, and CI/CD.

Focus on building your product instead of reinventing the wheel.

### WhatsApp AI Chatbot

- An intelligent WhatsApp chatbot powered by OpenAI that automates customer conversations for any business.
- Made with Node.js with Typescript and NestJS framework, integrated with OpenAI