

Ale Miralles

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Summary

Senior Software Engineer with 15+ years of experience delivering robust, scalable web applications across finance, e-commerce, automotive, logistics, and esports industries.

Hands-on contributor and team lead, specializing in **Elixir, Rails, Node.js, and modern web stacks**, strongly focusing on performance, maintainability, and product impact.

In recent years, helped multiple companies successfully integrate AI into their products, including recommendation engines and risk-detection systems.

Proven track record of shipping mission-critical systems under pressure, mentoring teams, and driving business outcomes through pragmatic engineering.

AirOps

AI-powered content creation platform to win in AI search

Senior Software Engineer (Ruby on Rails / React) Nov 2025 - Present

I build and maintain integrations that connect AirOps's AI content-generation pipeline to external platforms, bridging the gap between content creation and live production. (WebFlow, WordPress, Sanity, Contentful, etc...)

Tech stack: Ruby on Rails, React, Postgres, Redis, AWS, GitHub, Sentry, DataDog, and most modern CMS systems.

Canary Data

AI-powered investment risk analysis platform

Senior Software Engineer (Elixir/Phoenix/LiveView/React)

Jan 2025 – Dec 2025

- Contributed to developing a cutting-edge flagging system, leveraging AI and data pipelines to detect patterns in insider trading, executive turnover, and financial anomalies.

- Helped design and implement robust Elixir backend APIs and intuitive React interfaces to surface financial insights clearly and responsively.
- Took ownership of core subsystems and helped the team deliver quickly and reliably under tight deadlines.
- Provided hands-on support and helped the team to troubleshoot and resolve incidents

Tech stack: Elixir, Phoenix, LiveView, Postgres, Oban, React, AWS, Docker, GitHub, AI APIs, AppSignal, Leadership

Superkind

AI-enabled e-commerce platform

Senior Backend Engineer (Elixir/Phoenix/LiveView)

Jan 2024 – Jan 2025

- Developed and maintained the Elixir backend powering Superkind's AI-driven product recommendation engine, ensuring scalability, performance, and privacy compliance.
- Collaborated closely with product and design teams to deliver user-facing features that were aligned with business needs.
- Took ownership of the company's GCP infrastructure, streamlining deployment workflows and improving reliability.

Tech stack: Elixir, Phoenix, LiveView, Postgres, GCP, Kubernetes, Firebase, Docker, GitHub, AppSignal, DevOps, Vertex, CloudRun

AR Workflow

Platform for automating accounts receivable workflows

Senior Software Engineer (Ruby on Rails)

Jun 2023 – Jan 2024

- Led and actively contributed to migrating a legacy system (Node, Rails, Angular) to a modern, scalable Rails + React stack.
- Rebuilt the entire payment platform in under 60 days, ensuring uninterrupted revenue collection after WePay shut down its product.
- Managed cross-functional teams across the US and overseas while staying hands-on with development under a high-pressure, time-sensitive roadmap.

- Shipped resilient APIs and enhanced system observability using tools like Scout and Bugsnag.

Tech stack: Ruby on Rails, React, Postgres, Redis, Node, Angular, Heroku, AWS, Twilio, QuickBooks API, GitHub, Leadership

Upstart13

Filtered-spend card system for healthcare and nutrition access

Senior Software Engineer (Elixir/Phoenix/LiveView)

Nov 2022 – Jun 2023

- Acted as hands-on tech lead in a HIPAA-compliant environment, helping build and ship AboutFresh's payment and data infrastructure.
- Implemented core services in Elixir and guided a small team through security-sensitive development practices.
- Collaborated with stakeholders to ensure systems met strict compliance and reporting needs.

Tech stack: Elixir, Phoenix, LiveView, Postgres, Docker, Azure, GitHub, Payment APIs, Honeybadger, HIPAA, Leadership

Blitz

Esports platform with 1M+ DAU

Backend Engineer (Elixir/Phoenix)

Jan 2020 – Nov 2022

- Engineered high-throughput APIs and data pipelines to support Blitz's massive user base.
- Owned backend infrastructure for key product features, including match analytics and coaching insights.
- Built real-time and batch data aggregation systems using Flow, Broadway, and Riak, ensuring scalability and uptime during peak traffic.

- Collaborated with data science and product teams to deliver competitive insights and personalized recommendations to players at scale.
- Optimized critical API endpoints and background jobs, reducing latency and improving reliability for millions of users worldwide.

Tech stack: Elixir, Phoenix, Postgres, Riak, Broadway, Redis, GCP, GraphQL, Docker, Sentry, Grafana, GitHub

Codementor

On-demand mentorship and freelance work for developers and teams

Senior Software Engineer (Primarily Ruby on Rails)

May 2018 – Dec 2022

- Delivered high-impact mentorship and freelance support to engineers and small startups via live coding sessions.
- Specializing in debugging, refactoring, and accelerating stalled projects across Rails, JavaScript, and infrastructure.
- Built trust and repeat business through clear communication and real-time problem-solving.
- Conducted in-depth code reviews and architecture guidance, improving long-term code health for clients.
- Consistently rated five stars - [see public reviews](#).

Tech stack: Ruby on Rails, Postgres, Redis, Heroku, AWS, JavaScript, GitHub, Twilio

Optic Power

Consulting services for early- and growth-stage startups

Senior Software Engineer

Dec 2020 – Jan 2021

Walkboard (Moving Logistics)

- Acted as hands-on tech lead, guiding implementation of Walkboard's logistics platform.

- Delivered new features and improved infrastructure stability across booking and scheduling flows.

PrivacyAI (PII Removal)

- Developed backend services for an automated PII removal engine using scraping and Puppeteer bots.
- Helped architect and stabilize early versions of the product under tight timelines.

Tech stack: Elixir, Phoenix, Postgres, Riak, Redis, GCP, GraphQL, Docker, Django, Python, React, AWS, Firebase, Node.js, Puppeteer, Apify, GitHub, Leadership

SnapCell

Video and 360° engagement platform helping car dealerships increase sales and customer retention

Senior Software Engineer (Ruby on Rails)

Oct 2018 – Dec 2020

- First engineering hire — worked alongside the CTO to build the core product and scale operations.
- Wore many hats: backend dev, frontend dev, DevOps, customer support, and infrastructure.
- Delivered critical features under tight feedback loops, ensuring product-market fit and early customer wins.
- Automated deployments and improved system reliability across Heroku/AWS.

Tech stack: Ruby on Rails, Postgres, Redis, Heroku, AWS, Twilio, GitHub

Stash (Consulting)

Consulting services for Rails and Node.js projects

Senior Software Engineer (Ruby on Rails)

Sep 2017 – Present

- Helped multiple companies improve their backend infrastructure and product velocity.
- Delivered a real-time feed synchronization service for Sky Sports (Node.js, MongoDB, GraphQL, Kafka).
- Provided performance tuning, API design, and DevOps help across Rails and React projects.

Tech stack: Ruby on Rails, Node.js, Postgres, Redis, React, AWS, MongoDB, GraphQL, Kafka, GitHub, Heroku, Leadership

FPA Software

Enterprise software for financial institutions (core banking, investment, and back-office systems)

Software Architect · Mar 2007 – Oct 2017

Led the design and development of enterprise-grade software powering financial institutions across Argentina, including systems for investment management, settlement, back-office operations, and regulatory workflows.

Built and maintained backend services handling high-value financial operations, with a strong focus on correctness, auditability, and reliability under money movement.

Architected and delivered SOA-based platforms integrating trading desks, risk systems, and accounting/back-office processes, supporting complex financial workflows end-to-end.

Modernized legacy infrastructure by introducing .NET services and MSMQ-based pipelines to improve processing throughput, fault tolerance, and system observability.

Acted as tech lead and systems architect for over a decade, working closely with stakeholders to translate financial requirements into robust, scalable systems.

Tech stack: C#, SQL Server, Oracle, .NET, .NET Core, IIS, MSMQ, GitHub, Go, Leadership

Writing

Data Structures From Scratch

Jan 2019 - Self-Published

A brisk introduction to essential, advanced, and persistent data structures using the Ruby programming language. ASIN: B07MZZT6SW