

Fernando Oviedo

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Summary

Full-Stack & AI Engineer with 8+ years of experience designing and scaling production web and mobile systems. Specialist in Next.js, React, React Native, TypeScript and Node.js, combined with LLM feature development (RAG, agents, tool calling, generative UI, MCP) using Mastra and Vercel AI SDK. Track record of collaborating on 30+ end-to-end projects and founding production SaaS products, focused on clean and robust architecture, real-time synchronization and Product.

Experience

Founder & Lead Full-Stack Engineer, BoardCork – Remote Jul 2025 – Present

Collaborative multiplayer investigation web platform (boardcork.com) for B2C and B2B interactive events

- Designed and built the first end-to-end version with Next.js, TypeScript, React-Flow, Drizzle ORM and PostgreSQL in 12 weeks
- Implemented a real-time collaboration layer with CRDT (Socket.io, Y.js and Redis adapter), achieving under 200ms synchronization latency on the collaborative board
- Designed a multi-provider payment architecture (MercadoPago, Polar, Stripe) with secure webhooks, automated provisioning and domain events
- Scaled the product 100% organically to 80+ weekly active users and 1,200+ registered users, with 99.2% uptime on a self-managed VPS (Docker, Dokploy, GitHub Actions CI/CD)

Front-End & Mobile Developer, 2D Soluciones SRL – Buenos Aires, Argentina Jan 2019 – Dec 2024

Software engineering consultancy building web, mobile and enterprise back-office solutions

- Led the technical architecture and delivery of 12+ production projects using React, React Native, Expo, Next.js, TypeScript and Node.js
- Designed a modular multi-tenant frontend architecture, reducing launch and onboarding times for new clients
- Implemented automated CI/CD pipelines (GitHub Actions, Docker), removing deployment friction and enabling daily production releases
- Mentored junior developers on design patterns, TypeScript strict typing and best practices, establishing the team's code standards
- Integrated mission-critical APIs (payment gateways, OAuth2 authentication, geolocation) into high-volume transactional back-office systems

Senior Full-Stack & AI Product Engineer, Independent Software Consultant – Remote Jan 2016 – Present

Consulting and custom development for international clients in FinTech, HealthTech, Education and E-commerce

- Built scalable end-to-end web and mobile applications with Next.js, React, Node.js, Express, PostgreSQL, MongoDB, Firebase and Supabase
- Implemented and deployed RAG pipelines and tool-calling agents (LangChain, OpenAI API, pgvector), cutting support response times from hours to seconds.
- Published and maintained cross-platform mobile apps on the App Store and Google Play with React Native and Expo
- React Native version migrations from v0.56
- Migrations from React Native CLI to Expo
- Built interactive 3D web experiences using Three.js and canvas rendering engines.

Notable Projects

BoardCork Cases | ECI Jul 2025 – Present

Collaborative criminal case web game. Multiple cases and a modular, generalized and customizable game system to produce multiple styles of gamified mechanics

- Built a real-time canvas engine on top of React-Flow, Y.js and Socket.io with presence, spotlight search and node persistence.
- Created a headless design system with 60+ accessible components using Radix UI, Tailwind CSS and Turborepo.
- Complete reusable environment for payments, users, CRM, AI Agents and deployments
- Custom MCP to automate criminal case creation

Skills

Applied AI: LLMs (OpenAI, Anthropic, Llama), RAG systems, Multi-Agent Systems, Tool Calling, Vector Databases (pgvector), Mastra for orchestration, Vercel AI SDK, LangChain, MCP, Harness Engineering

Languages: TS, JS, Python, SQL, HTML5, CSS

Frontend & Mobile: React.js, Next.js, React Native, Expo, React-Flow, Tailwind CSS, Zustand, Redux Toolkit, Radix UI, Three.js, SASS, MUI

Backend & Databases: Node.js, Express, Hono, PostgreSQL, Supabase, Firebase, MongoDB, Drizzle ORM, Payload CMS, Redis, Socket.io, Y.js, RESTful APIs, GraphQL

DevOps & Infrastructure: Docker, GitHub Actions, CI/CD, Dokploy, Nginx, Linux/VPS, PaaS, Supabase, AWS (S3, EC2)

Architecture & Practices: Clean / Hexagonal Architecture, SOLID, Event-Driven Architecture, Multi-tenant Systems, Monorepos (Turborepo, pnpm), Agile/Scrum

Languages

Spanish: Native

English: Professional Working Proficiency (B2)

German: Beginner (A1)

Education

UNSAM — Universidad Nacional de San Martín , Coursework in Aerospace Engineering (University coursework) – Buenos Aires, Argentina	2017 – 2019
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- Intensive training in mathematical analysis, linear algebra, physics and complex systems programming.

Químicos Argentinos , Technical High School in Chemical Technician in Production Process Industries – Mendoza, Argentina	2011 – 2016
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- Laboratory technician. Production project management. Technical analysis