

Diego Rodriguez

AI Full Stack Engineer

/ AI-driven Products / Scalable & High-Impact UX

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WORK EXPERIENCE

AI Full Stack Engineer – Infinity Corp | E-Gaming 2025 – Present

Product: backoffice ecosystem for managing hundreds of online casinos with real-time operations.

- Designed the high-concurrency backoffice ecosystem using React, Vite, and Tailwind CSS, enabling a single team to operate hundreds of casino instances simultaneously without performance degradation.
- Developed complex data visualization dashboards with real-time monitoring of betting operations and user activity, reducing the operational response time of the support team.
- Implemented React Query as the remote state layer, eliminating duplicate requests and improving frontend responsiveness through advanced caching strategies.
- Integrated Claude Code and GitHub Copilot as a core part of the development workflow, accelerating feature delivery and reducing technical debt from the start of the project.

Full Stack Developer – Polynomium | Fintech January 2024 – January 2025

Product: financial platform with dynamic data and real-time payment statuses.

- Led the complete architectural migration from a BaaS (Supabase) to a decoupled system with a Python-based REST API and a Next.js layer, eliminating vendor dependency and gaining full control over performance and security.
- Strategically optimized SEO and load times using SSR and ISR in Next.js, adapting rendering to the data type — dynamic vs. static — based on the financial product's needs.
- Designed the authentication system with Auth0 + JWT, implementing interceptors in the Fetch API for automated token injection and secure communication with the Python backend.



With over 5 years as a Frontend Engineer, I have developed complex web applications in Fintech and iGaming — international payment methods, dashboards, and large-scale platforms with high concurrency and real-time data.

Specialized in clean architectures, performance, and high-level UI/UX powered by AI. I am actively expanding my profile toward AI-First development: integrating AI as a core part of product building, including agents, LLM-based systems, and Model Context Protocol (MCP) to efficiently orchestrate model interactions, context, and tools.



TECHNICAL SKILLS

- React
- NextJS
- React Native
- TypeScript
- JavaScript (ES6+)
- PostgreSQL
- Expo
- Node.js
- Nest.js
- TailwindCSS
- Docker
- Git
- CSS/SCSS
- HTML
- Zustand
- React Query
- Zod
- Axios
- Storybook
- Chakra UI
- Cypress
- Jest
- Supabase
- Prompt
- MCP
- LLMs
- SSE
- AI Agents
- Google Cloud

WORK EXPERIENCE

Front End Developer – Castor, Inc | Fintech

September 2021 – December 2023 · Mexico (Remote)

Product: high-traffic Fintech application with payment, insurance, and credit card modules.

- Developed core application modules — utility payments, insurance, and mobile recharges — prioritizing performance and conversion rates in business-critical flows.
- Implemented secure digital onboarding and integrated third-party financial services, enabling the full lifecycle of credit cards: activation, transaction monitoring, and secure handling of sensitive data.
- Delivered an administrative dashboard in Next.js for the internal support team, reducing operational friction in account management and oversight of user financial activity.

Web Developer – Freelance

March 2021 – September 2021 · Argentina

Product: E-commerce and SMBs.

- Designed and deployed production-ready interfaces in Next.js and React for small and medium-sized businesses, focusing on clean code and performance-optimized components.
- Collaborated with a UI/UX designer to deliver high-performance web applications for diverse clients, ensuring responsive design and optimal user experience.
- Developed a custom e-commerce platform for an interior design business, with real-time stock and pricing management.

EDUCATION

Frontend Developer – Web Developer

Dec. 2020 – Feb. 2021 · Coderhouse

Intensive web development course focused on frontend: semantic HTML, advanced CSS, JavaScript, responsive design, and UI best practices. Hands-on training oriented toward building real interfaces that marked the entry point into the industry and laid the foundations of a frontend development career that continues to evolve today.

Java Programmer

Dec. 2018 – Feb. 2019 · ITMater Academy

Intensive programming course focused on Java and object-oriented paradigms. Covered language fundamentals, data structure management, basic design patterns, and functional application development. Training that consolidated structured thinking and clean code discipline as the foundation for a frontend development career.

Computer Technician

Jan. 2012 – Dec. 2015 · Hogar Naval Stella Maris E.T N°37

Technical high school degree with a focus on computing, covering programming fundamentals, systems architecture, computer networks, hardware, and software. During these years I developed logical thinking and the technical foundation that later evolved into professional web development, consolidating a deep understanding of how systems work from their most basic layers.