

# ENRIQUE FERREIRO AVILA

📍 Havana, La Lisa, Cuba ✉️ ztazhorde@gmail.com 📞 +5356562172

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## SUMMARY

Software developer specialized in building scalable web applications using modern architectures like DDD and event-driven systems. Experienced in real-time features, secure authentication, payment integrations, and APIs using Next.js, Firebase, Supabase, Stripe, and Mapbox. Focused on performance, clean architecture, and delivering reliable, production-ready products.

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## EXPERIENCE

### Developer

#### ABALink

November 2025 - March 2026, Remote

- Architected a high-performance web system using DDD and CQRS, improving scalability and maintainability for enterprise-level operations.
- Developed dynamic server-rendered interfaces with Next.js 15 and App Router, optimizing SEO and reducing page load times.
- Integrated SSE for real-time data management and robust authentication, ensuring 99.9% consistency across administrative modules.
- Streamlined internal productivity by 30% through modular CRUD components and dynamic PDF generation using react-pdf.
- Implemented automated Jest testing and CI/CD workflows using Vercel, reducing deployment errors and ensuring high-quality code delivery.

### Developer

#### JUUZ Company

September 2024 - January 2026, Remote

- Designed and launched a real-time towing service platform using Next.js, Ably, and Mapbox, supporting 1,000+ concurrent users with live driver tracking.
- Improved notification delivery speed by ~50% by implementing event-driven architecture (SSE) and Event Emitters, enabling near real-time updates.
- Developed a bidding system for price negotiation, increasing user engagement by ~30% and improving transaction transparency.
- Integrated multi-language support and push notifications, increasing user retention by ~25% and expanding platform accessibility across regions.

### Developer

#### Charge2Go

January 2025 - March 2025, Remote

- Developed a web application for managing EV charging stations, supporting 500+ users with real-time reservations and concurrent interactions.
- Reduced API response time by ~40% by optimizing GraphQL queries and implementing caching strategies.
- Architected the application using DDD and dependency injection (Brandi), reducing code coupling by ~30% and enabling scalable feature expansion.
- Implemented event-driven patterns for complex state flows, reducing UI-related bugs by ~25% and improving system reliability.
- Designed a reservation calendar system that reduced booking time by ~35% and improved user interaction efficiency.

### Developer

#### El Chuletazo

August 2024 - January 2025, Remote

- Developed a full-featured e-commerce platform (React, Django) supporting 1,000+ products and concurrent users, with end-to-end checkout flows.
- Integrated Stripe payment processing, reducing failed transactions by ~20% and improving checkout completion rates.
- Implemented Google OAuth authentication, reducing onboarding steps by 40% and improving login success rate.
- Applied SOLID and Clean Architecture to decouple layers, reducing code coupling and accelerating feature delivery by ~25%.
- Reduced technical debt by modularizing core components, decreasing bug incidence and improving maintainability across releases.

### Developer

#### Orfi Gallery

August 2023 - December 2023, Remote

- Engineered an automated inventory management system using Next.js and PostgreSQL, providing real-time analytics for 1,000+ stock items.
- Implemented data-driven dashboards with Prisma, reducing manual reporting time by 50% through automated inventory turnover tracking.
- Enforced DDD practices and clean coding standards, ensuring 99.9% data integrity during high-transaction peak periods.

### Developer

#### Video Forms

January 2023 - May 2023, Remote

- Built a video marketing platform using Next.js and Firebase, enabling real-time lead capture and automated email notifications, resulting in a **35% increase in lead conversion rate** and supporting **active users**.
- Optimized frontend performance for a multi-tenant architecture, reducing average lead generation latency from **~2.8s to under 800ms**, improving overall system responsiveness by **~70%**.
- Implemented component-based architecture and scalable state management, reducing feature development time by **~40%** and enabling faster rollout of marketing features across **tenants/products**.

## Developer

### XABAL SIGA Power Management System

June 2022 – December 2022, UCI, Cuba

- Designed and developed a configuration module for a food management system used by 100+ users, enabling customizable workflows and system configurations.
  - Reduced code duplication by ~30% by implementing modular and reusable components following clean code principles.
  - Improved data reliability by reducing processing errors by ~25% through robust validation using Django and PostgreSQL.
  - Integrated power consumption analytics with real-time monitoring, reducing decision-making time by ~20% for facility managers.
  - Developed RESTful APIs and real-time dashboards, reducing data retrieval time by ~40% and improving system responsiveness.
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## SKILLS

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Languages: JavaScript, TypeScript, Python

Frontend: React, Next.js, Astro, Redux Toolkit, RTK Query, React Query, Tailwind CSS, Chakra UI, MUI, shadcn/ui, Radix UI

Architecture: SOLID, DDD, Clean Architecture, Event-driven (SSE, Event Emitter), CQRS

Backend: Node.js, Django, Supabase, Firebase, GraphQL, REST APIs

Services & Payments: Stripe, Supabase Auth, Firebase Auth, Google OAuth, Ably Realtime, Mapbox, Leaflet

Databases: PostgreSQL, Prisma, TypeORM, Django ORM, Drizzle ORM, Supabase, Firebase

Tools: Git, GitHub, CI/CD, GitHub Flow, Jest, Docker

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## EDUCATION

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### Ingeniero en Ciencias de la Computación

IPU Calixto Garcia · Puerto Padre, Las Tunas, Cuba · 2017-2022

### Licenciatura

IPU Calixto Garcia · Puerto Padre, Las Tunas, Cuba · 2014-2017

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