

VÍCTOR HERNÁNDEZ

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SUMMARY

Engineering Leader with 19+ years building large-scale, mission-critical platforms across fintech, crypto, and public-sector organizations. Led end-to-end development of CHIVO Wallet and the APEX trading platform, improving scalability, real-time performance, and system reliability for millions of users. Expert in React Native, React, Node.js, and AWS, with a strong track record guiding engineering teams, defining architecture, and delivering high-impact products under fast-paced and high-stakes environments.

EXPERIENCE

Lead Software Engineer

AlphaPoint (APEX Trading Platform)

Jul 2024 – Nov 2025

- Led the mobile engineering efforts for **APEX**, delivering and enhancing features for **Trading, Margin, and Account Management**, ensuring seamless real-time interaction for high-volume trading operations.
- Architected and implemented real-time trading flows using **WebSockets, API Gateway**, improving trade execution and update latency by **60%**.
- Designed and built the mobile experience for complex financial modules, including **margin calculations, risk indicators, leverage controls, and order management UIs**.
- On the web platform, developed new features for **Trading UI, Margin, and Futures**, contributing to both the **user-facing platform** and an **admin portal** used for system monitoring, configuration, and operational management.
- Created a reusable cross-platform component library for mobile and web, reducing duplicated code by **35%** and improving long-term maintainability.
- Optimized mobile performance (cold-start ↓40%, crash rate ↓25%) through architectural adjustments and targeted profiling.
- Mentored engineers, introduced engineering standards, and significantly reduced code review cycle times (4 days → 1.5 days).
- Participated in on-call rotations and incident response, helping increase system availability to **99.95%**.

Software Engineer

AlphaPoint (CHIVO Wallet)

Jun 2023 – Jun 2024

- Modernized and refactored the legacy **CHIVO Wallet** codebase from an outdated React architecture into a **modern React + Hooks** approach, improving maintainability, readability, and performance across critical modules.
- Upgraded large portions of mobile and web code built on legacy patterns, reducing technical debt and enabling faster feature delivery across the engineering organization.
- Developed and optimized mission-critical user flows in **React Native, React, Node.js, and TypeScript**, ensuring stable financial operations and consistent cross-platform behavior.
- Improved real-time responsiveness by enhancing WebSocket integrations for **market data, account updates, and transaction processing**.
- Collaborated closely with backend, QA, and product teams to ship reliable features under tight timelines and high-traffic conditions.
- Strengthened platform performance and stability, contributing to increased reliability for millions of users.

Technical Lead & Senior Developer

International Organization for Migration (ONU) & Social Welfare Secretariat

Dec 2022 – Dec 2023

- Principal architect and developer for the Ángel Ariel project.
- Management platform for Quédarte and Casa Joven Centers built with React and Node.js.
- Coordination with stakeholders and functional teams.

Senior Mobile Developer

WizeDevs

Jan 2023 – May 2023

- Led a full refactor of a legacy React Native codebase, modernizing UI components, navigation flows, and state management to align with current React Native and Hooks best practices.
- Rewrote critical screens and modularized reusable components, improving maintainability, consistency, and long-term scalability of the app.
- Successfully integrated **Linka Smart Lock SDK**, implementing secure Bluetooth communication, device pairing, authentication flows, and lock/unlock operations.

- Designed and optimized user flows for smart-lock control, reducing connection failures and improving interaction responsiveness across supported devices.
- Improved app startup time, reduced UI lag, and resolved long-standing performance issues through profiling, bundle optimization, and component-level refactors.
- Collaborated with backend and product teams to ensure seamless device provisioning, user permissions, and real-time status updates.
- Strengthened app reliability by identifying and resolving edge cases related to Bluetooth sync, device state transitions, and offline handling.

Tech Lead & Full-Stack

Asofarma Pharma

Oct 2022 – Dec 2022

- Development of the Qatar 2022 World Cup pool platform with AWS architecture.
- Frontend and backend implementation.
- Operational support during the World Cup.

Tech Lead & Full-Stack

Quinielas Live

Ago 2022 – Dec 2022

- Full-stack development and AWS infrastructure deployment for the 2022 World Cup platform.

Senior Full-Stack

Cognits

Feb 2022 – Oct 2022

- Support for the LEND project.
- Development of new functionalities in React.
- Migration of components written in Jython.
- Enhancements in Dev/QA environments.

Senior Full-Stack Engineer

Bullseye Locations

Jan 2022 – Dec 2022

- Map-based applications using Google Maps and MapBox.
- Migration from .NET to React.
- Initiated mobile app development in React Native.

Tech Lead

International Organization for Migration (ONU)

May 2021 – Oct 2021

- Led the complete technical analysis and architectural design of the **Temporary Visa System (IGM)**, evaluating existing workflows, data structures, integration requirements, and operational constraints across government entities.
- Designed the system's end-to-end architecture, including service layers, data models, integration points, and security protocols, ensuring compliance with institutional and government technical standards.
- Produced all formal documentation required for implementation, including: technical specifications, process diagrams, functional requirements, data flows, UI/UX structure, and implementation roadmap.
- Coordinated with government stakeholders, legal teams, and functional specialists to validate requirements and ensure alignment with migration policies and regulatory frameworks.
- Delivered a complete modernization and improvement proposal covering scalability, security, user experience, and operational efficiency, enabling the next phase of system execution and development.

Tech Lead and Senior Full-Stack Developer

Food and Agriculture Organization (FAO – ONU) & SIECA

Nov 2016 – Jan 2020

- Regional agricultural market platform used across Central America and the Dominican Republic.
- Coordination of multinational technical teams.
- Web and mobile development.

Senior Full-Stack Developer

SIECA

Jun 2016 – Dec 2019

- RFID dashboard for customs.

- FYDUCA system maintenance.
- System integrations across countries.

Full-Stack Developer

FantasyGol

Jun 2012 – Jul 2016

- Development of multiple platforms: migration statistics, surveys, ecommerce, mobile apps, dashboards, nutrition systems, and fantasy sports.

Full-Stack Developer

Xchange

2012 – 2014

- Product-exchange systems, electronic invoicing, Java, PHP, and Oracle systems, web services, and backend data services.

Full-Stack Developer

SAT Guatemala

Feb 2006 – Agu 2013

- Internal applications for customs and taxation.
- Modernization of legacy systems using Java, OAS, Spring, Hibernate, and Oracle.

EDUCATION

Ingeniería en Sistemas

Universidad de San Carlos de Guatemala • 2006

CERTIFICATIONS

AWS Cloud Practitioner

Amazon AWS • 2022

Using React Hooks

Pluralsight • 2021

Building Applications with React and Redux

Pluralsight • 2021

Building Mobile Apps with React Native

Pluralsight • 2021

Inglés Avanzado

CALUSAC • 2002

SKILLS

Frontend: React, React Native, JavaScript, TypeScript, Angular

Backend: Node.js, Java, .NET

AWS: Lambda, API Gateway, DynamoDB, Amplify, CloudFormation, S3

Databases: Oracle, SQL Server, MySQL, MongoDB, DynamoDB

Payments: PayPal, Skrill

Tools: GitLab, Bitbucket, Jira, Figma

Other: Architecture, Agile/Scrum, CI/CD, Performance Optimization