Andy Ledesma García

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SUMMARY

Results-driven **Blockchain Engineer** and **Computer Scientist** with **5+ years** of experience across 7 organizations. Enhanced and further developed a pioneering **Real World Asset (RWA) tokenization platform** at Token Fleet, connecting Dubai's car rental businesses with stablecoins and global investors through **ERC-20** and **ERC-721** implementations. Served as **Blockchain Technical Lead** at Fusyona, directing development teams that built **DeFi protocols**, **decentralized exchanges**, **NFT marketplaces**, and **token launchpads**. Expert **Full-stack Developer** specializing in **Solidity**, **Golang**, **TypeScript**, **Next.js**, **C#**, and **.NET**. Successfully integrated **Web2/Web3 systems** across multiple enterprise projects. Former **University Instructor** teaching advanced programming and blockchain development

SKILLS

Programming Languages: Solidity (ERC-20, ERC-721, ERC-1155), Golang, TypeScript, JavaScript (ES6+), C#, SQL, Python, Kotlin, Java, C++

Technical Expertise: Blockchain Development, Smart Contract Development, Web3.js, Ethers.js, DeFi Protocols, NFT Development, Full-stack Web Developer, RESTful APIs, SQL Database Management, NoSQL, Mobile Application Development, Cloud Services

Frameworks & Technologies: Foundry, Hardhat, EVM, OpenZeppelin, .NET Core, Next.js, React, Redux, MongoDB, Docker, Kubernetes, Git, GitHub, Azure DevOps, CI/CD, EF Core

Professional Competencies: Team Leadership & Management, Project Management, Technical Problem Solving, Technical Documentation & Writing, Cross-functional Communication, Agile Methodologies, Scrum, Clean Code Principles, Test-Driven Development

Language Proficiency: English (Professional Working Proficiency), Spanish (Native Proficiency)

EXPERIENCE

Full-stack Blockchain Developer and CTO   Dec 2024 – Sept 2025
Token Fleet   *Dubai, UAE*

- Developed the Token Fleet platform (tokenfleet.io), a blockchain-based RWA tokenization platform for vehicle investment

- Successfully passed a comprehensive security audit by Nethermind Security for smart contracts (tokenfleet.io/audit), ensuring platform reliability and protection of user assets

- Engineered a responsive Web3 DApp with KYC/AML compliance protocols enabling users to purchase ERC-20 tokenized fractional ownership in vehicles

- Designed and implemented a custom multi-signature wallet solution for administrative functions, enhancing platform security and regulatory compliance (see code)

- Developed a QR-based ERC-721 NFT airdrop protocol for early access to platform features and user acquisition

- Architected MongoDB database schema and implemented efficient indexing strategies to optimize query performance and data retrieval

- Designed React-based interactive analytics dashboards with real-time data visualization for user portfolios and administrative functions

Blockchain Technical Lead & Full-stack Blockchain Developer   Jan 2023 – May 2025
Fusyona   *Havana, Cuba*

- Architected and developed a high-performance decentralized exchange (DEX) based on Uniswap V2 protocol with automated market maker (AMM) functionality and liquidity pools

- Engineered an ERC-721/ERC-1155 compatible NFT marketplace with advanced trading features including auctions, fixed-price listings, and royalty distributions (see code)

- Designed and implemented a secure token launchpad protocol for ERC-20 token offerings with vesting schedules

- Led and mentored a cross-functional development team of 8 developers, establishing code quality standards, implementing CI/CD pipelines, and conducting thorough code reviews

Android Mobile Application Developer   Aug 2022 – Jan 2023
Hospital Book Project   *Havana, Cuba*

- Developed a secure Android application using Kotlin and MVVM architecture to display AES-256 encrypted medical content for healthcare professionals

- Implemented secure payment processing through integration with the Cuban Transfermovil payment gateway using REST APIs and OAuth authentication

Full-stack Web Developer
Aug 2019 – Mar 2021

BeRichCuban
Havana, Cuba

- Architected and developed two high-traffic web applications: a social media management platform for Instagram engagement optimization and a classified ads aggregator that significantly improved user engagement

- Implemented secure API integrations with Instagram Graph API and Telegram Bot API, along with multiple payment gateway connections supporting a high volume of monthly transactions

- Engineered scalable backend services (.NET Core C# with EF Core and PostgreSQL) and responsive frontend interfaces (Blazor/Razor with Bootstrap 4 and jQuery) with high reliability and uptime

Blockchain Technical Volunteer
April 2025

EthDubai
Dubai, UAE

- Facilitated technical blockchain workshops on Solidity smart contract development and Web3 integration for over 500 conference attendees

- Provided expert technical support for DeFi, NFT, and Layer 2 scaling solution demonstrations to conference attendees and presenters

Computer Science Instructor
Jan 2023 – Sept 2024

Havana University
Havana, Cuba

- Delivered comprehensive undergraduate Computer Science and Data Science curriculum (2 courses per semester), including advanced Database Systems (SQL, NoSQL, MongoDB, PostgreSQL) and Computer Architecture (x86, ARM) courses to approximately 150 students

- Mentored a blockchain research project and supervised thesis development

- Collaborated with faculty to develop innovative Computer Science education methodologies, significantly improving student project completion rates

EDUCATION

Havana University
Havana, Cuba

Bachelor of Science in Computer Science
Sept 2018 – Dec 2022

- Specialized coursework: Blockchain Development (Hyperledger Fabric, Ethereum), Distributed Systems, Data Structures and Algorithms, Computational Simulation, Artificial Intelligence, Machine Learning, Database Management Systems, Software Engineering, Compilers, Programming Language Theory

- Led research project implementing Infinite Variable Neighborhood Search algorithms for Vehicle Routing Problem optimization, with significant efficiency improvements over baseline methods (see [code](#))

- Selected as teaching assistant for Information Retrieval Systems and Compilers courses (2022), providing technical guidance to 45+ students