

## Full-Stack Software Engineer

Passionate about building scalable web applications, optimizing system performance, and delivering high-quality, reliable code. Strong expertise in end-to-end development, from designing intuitive UIs to architecting robust backend systems. Focused on efficient problem-solving, clean architecture, and seamless user experiences—whether working with blockchain integrations, cloud services, or high-traffic APIs. Thrives in fast-paced environments that value innovation, performance, and maintainability.

## Technologies and Languages

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- Languages: Javascript, Typescript, Python, Go, Solidity
- Technologies: React, Nextjs, Postgres, AWS, Git, Docker, TailwindCSS
- Other: Data structures, Web3

## Work Experience

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### Full-Stack Software Engineer

Catalyst Mexico  
Mexico (Remote)

April 2021–May 2025

#### Mobile App Development Team

- Engineered a non-custodial mobile wallet for stablecoin transactions, enabling secure peer-to-peer remittances via smart contract-based escrow.
- Integrated a GraphQL API for high-performance data retrieval, ensuring a seamless and responsive user experience.
- Spearheaded UI/UX design with a focus on security, accessibility, and intuitive navigation to enhance user adoption.
- Implemented wallet encryption, biometric authentication, and transaction validation to safeguard user assets.
- React Native, Nodejs, JWT Authentication, Apollo Client, React Navigation, Redux.

#### Web3 Development Team

- Deployed customizable NFT collections on the Ethereum blockchain, enabling dynamic attribute personalization via an on-chain catalog.
- Developed smart contracts (Solidity) to manage NFT metadata, traits, and storage, ensuring secure and decentralized data handling.
- Integrated the NFT system into a Web3-based game using React.js, Node.js (Express), and Solidity, enabling seamless blockchain interactions.
- Implemented decentralized storage solutions for NFT assets, optimizing performance and cost efficiency.
- Technologies: Reactjs, Nextjs, Go, Nodejs, Ethersjs, Hardhat, Web3js, Viem, Solidity, Ethereum Blockchain

#### Other Projects

- Designed and developed a scalable microservice to integrate multiple third-party APIs (Shopify, Amazon Seller, Chargebee, QuickBooks) for automated data retrieval, parsing, and transformation. Implemented seamless synchronization with a PostgreSQL database to ensure consistent and up-to-date data storage.
- Enabled efficient dashboard creation in Redash by structuring and optimizing data flows for real-time analytics and reporting.
- Technologies: Node.js, PostgreSQL, Redash, REST APIs, ETL processes.

## Web-App Developer

**Spyral Systems**  
Sinaloa, Mexico

**Feb 2020–Oct 2020**

- Designed and developed web applications using JavaScript, Angular, and jQuery, ensuring optimal performance and UX.
- Integrated RESTful APIs and backend services with SQL Server databases for efficient data management and retrieval.
- Optimized application performance through code refactoring, caching strategies, and SQL query tuning.
- Maintained and upgraded legacy systems by modernizing frontend components with Angular for improved maintainability.
- Technologies: JavaScript, Angular, jQuery, SQL Server, RESTful APIs, Frontend Optimization

## Support & Tester

**Sys21 Software Agricola**  
Sinaloa, Mexico

**Jun 2019–Dic 2019**

- Developed, tested, and provided technical support for an agriculture-focused software system built with Visual Basic 8, ensuring high reliability and performance.
- Collaborated with cross-functional teams to troubleshoot issues, implement fixes, and enhance system functionality.
- Assisted in migrating/modernizing legacy components by working with C# for partial system upgrades.
- Technologies: Visual Basic 8, Microsoft Access, C#, Software Testing, Technical Support

## Education and Certifications

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- **B.Sc. Information Technology Administration**, Utel, Mexico. **2022–2025**
- **B.Sc. Computer Science**, Culiacan Technological Institute (TecNM), Mexico. **2016–2021**

## Interests

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- Fitness – Dedicated gym-goer, focusing on functional fitness and progressive overload.
- Gaming, Puzzles & Retro Anime – Enjoy single player video games (RPGs, Sci-Fi) and nostalgic anime classics (Akira, Cowboy Bebop, Ghost in the Shell, Samurai Champloo).