

Daniel Arroyo Yáñez

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Summary

Computer Scientist and Software Engineer, doing blockchain and web3 development with 3 years of full stack web3 applications, contracts and launched sites. I believe in efficient communication and love to build useful products for the world. Open Source contributor. UI/UX enthusiast.

Skills

React, Tailwind CSS, NextJS, HTML, CSS, JS, TS, Git, Software Engineering

I build apps on React with NextJS and Vite as frontend frameworks. I use React hooks for performance optimization. I can debug React app performance using the Profiler and other dev tools. I also use custom hooks, context, reducers, Redux and the RTK for state management in stores, and other libraries like Tanstack-query, Zustand, styling with Tailwind CSS, MaterialUI or styled components. I prefer Typescript over Javascript and always use ESLint or Standard for clean code and to prevent errors.

Solidity, Ethereum, Smart Contracts, web3, Blockchain Development

I can develop, test and deploy Ethereum smart contracts from scratch, using Solidity and software like Infura, IPFS, web3, Metamask, Mocha, Hardhat and Truffle. I have worked on ERC20, ERC721, ERC1155 and other standards.

Node, Express, SQL, Git, Software Engineering, Task Management

I know NodeJS, ExpressJS and .NET (C#) and use it to build backends and APIs. I can design and deploy normalized databases in SQL Server, PostgreSQL and MongoDB (basic), and connect them to the backend using ORMs like Sequelize and TypeORM. I have led teams on an agile environment as a Scrum Master, using GIT version control and software best practices, design patterns and software architecture.

DigitalOcean (DO), Docker, AWS, Cloud Computing, Infrastructure, Linux.

I have created, deployed and managed Docker containers, migrating existing working apps to platforms like Digital Ocean and AWS. I have deployed full sites using domain registrars, Linux hosting services and cloud services. I have used S3, Cloudfront, Lambda, EC2 and other AWS Services for deployed apps, bots and more. I use Linux as my OS and tinker with settings.

Zero Knowledge Cryptography, Circom, SnarkJS

I know how to use circuits to build zero knowledge decentralized applications. I have coded basic circuits in circom, and used verifier smart contracts to build interesting ZK apps.

Experience

Fullstack Web3 Developer, IDRIS, nov 2024 - present

Developed Creators V2, a web3 creator monetization app that allows Twitch streamers to receive crypto donations and display alerts on stream (Streamelements but on crypto rails). This monorepo includes frontend, backend and packages and it is on NextJs and Express, and libraries like Radix UI, RHF and viem. Onboarded 30+ streamers with embedded wallets using the Privy SDK. Used Elevenlabs for text-to-speech and text-to-sound effects on donations. Worked on a Solana copilot browser extension which tracks token buyings and sends alerts through sockets to subscribed users, using Helius and Alchemy webhooks. Implemented wallet connection with rainbowkit, SIWE and SIWS. Check: idriss.xyz

Frontend Web3 Developer (Cofounder), BubbleFi, mar 2024 - present

Developing BubbleFi, a decentralized exchange (DEX) on the Monad Blockchain (EVM compatible L1). Working on a fork of Quickswap and Uniswap v2 core contracts and sdk. Feature adaption for our custom smart contracts, debugging and improving the NextJs frontend with updaters, hooks and custom logic. Integrated the webapp with blockchain data using the Graph and oracles using Pyth. Check: bubblefi.xyz

Hackathon Mentor, Invisible Garden, oct 2024 - nov 2024.

Taught a beginner to advanced Solidity and Ethereum developer course for 6 weeks, including Solidity basics, design patterns, smart contract security, standards, Foundry and Scaffold-Eth2. Mentored teams with feedback for their projects related with ZK, MPC, distributed and decentralized blockchain technologies, including tech from the sponsor protocols.

Frontend Developer, Innowork, jul 2023 - nov 2023.

Worked on a seller-tracking mobile PWA with React, Zustand and Supabase. Integrated custom form handling and dynamic menus loading connecting to backend API endpoints.

Blockchain Developer, Freelance, jan 2021- dec 2024

Won Astro Online Hackathon (Hac) with a forum dApp that uses React and ICP Canisters (contracts) to allow tutorial posting. Won Decentralized Intelligence Season2 Hac with a recommendation engine with colaborative filtering (ML) using Ceramic streams. Entered Chainlink Hac. with a tokenized ticket minting dApp with Chainlink Oracles, QuickNode and a Golang integration API. Developed a funding DApp on Ethereum Sepolia to allow users to create campaigns, donate and withdraw funds (smart contracts coded from scratch for practice). I have participated in other hackathons from ETHGlobal, LearnWeb3, DoraHacks and Encode. Deployed the Skolens NFT Mint App using Polygon and Truffle (check: skolens.xyz). Deployed a fractionalized NFT marketplace on Shardeum. Developed a fractionalized bond contract suite and minting app using ERC20Permit, ERC721Holder, and ReentrancyGuard for protecting against reentrancy attacks.

Fullstack Web Developer, Flexoprint, 2022 - 2023

Developed an fully responsive ERP on React, Bootstrap 5, Express and PostgreSQL. Part-time.

Frontend Web Developer, SafeWallet (Contributor), 2023

Opened pull requests fixing mostly UX or interface responsiveness bugs. Received great feedback on clean code and best practices.

Education**PSE Core Program, 2024 (new ZKET 2025)**

Zero knowledge cryptography, applied cryptography and maths, circuit construction (circom, plonk) and dApp building with libraries for contracts and frontend.

Udemy, 2022-2023

Ethereum and Solidity: The Complete Developer's Guide.
Modern React with Redux [2024 Update].

ESPOL, 2016-2021

Bsc. in Computer Science.

Activities: Subject teaching tutor on Database Systems. Subject research tutor on Mobile Apps and IoT Devices (Scrum). Monitoring web app development for ESPOL's Bosque Protector Prosperina (MVC, .NET). Published paper: Tourism Analysis in Ecuador through Airbnb. Thesis: An custom CNN for ripeness classification of Cavendish banana photos using transfer learning and a synthetic banana images database (3D generated).