Gerald Arzola

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SOFTWARE ENGINEER | FRONT-END DEVELOPER

Front-End Software Engineer with a strong focus on building responsive, scalable applications across both traditional (Web2) and blockchain-based (Web3) platforms using React, Next.js, and TypeScript. Experienced in deploying production-ready apps, including a decentralized application serving 30,000+ daily users. Passionate about clean UI/UX, modern web technologies, blockchain-integrated experiences, and delivering high-performance applications in agile teams.

EXPERIENCE

Augminted Labs | Frontend Engineer   11/2021 - 08/2024

- Collaborated on building an end-to-end platform for launching crypto projects, enabling users to upload art layers, define generation rules, preview outputs for QA, and deploy customizable smart contracts—all without writing code. Engineered a full-featured platform with a team using React, Firebase, and Web3 tools to let users upload layered artwork, define generation logic, preview outputs, and deploy custom ERC-721/1155 smart contracts with on-chain raffle functionality—no coding required.
- Led frontend development of a Web3 DApp using React and Ethers.js, enabling wallet-based login, real-time smart contract reads/writes, and personalized token minting experiences—translating creative concepts into interactive UI elements like animated parallax maps and dynamic mint feedback.
- Developed a fully on-chain decentralized raffle application using React, Next.js, Solidity, and Ethers.js, featuring wallet connectivity, deterministic winner selection via blockchain randomness, IPFS-stored logic for public verifiability, and animated user feedback synced to smart contract events.
- Created a Web3 experience allowing users to mint a free, fully customizable NFT via a dynamic character creator UI, with user-selected metadata driving backend image generation and hosted asset URLs to support future metadata mutability.

Kaijukingz | Founding Developer   08/2021 - 08/2024

- Created the first decentralized web app for Kaijukingz which served 30,000 users daily at its peak
- Developed a full-stack decentralized Web3 dashboard and game using React, Tailwind, Firebase, Django, and Pixi.js, enabling users to connect via crypto wallet, create custom characters, interact with an ERC-20 token-based in-game economy, and progress through lore puzzle challenges and omnichain experiences.
- Built an e-commerce platform for KaijuKingz enabling users to purchase physical and digital products—including token traits and whitelist spots—using credit card, crypto, or the project's native ERC-20 token, with on-chain trait application and an internal admin dashboard for inventory management.
- Built a decentralized web application for KaijuKingz enabling users to connect their wallet and interact with the project's full blockchain ecosystem—viewing tokens, customizing attributes, managing ERC-20 deposits/withdrawals, and performing gamified smart contract-based actions.
- Created other decentralized apps consisting of Dashboards, Topdown Video Game with Pixi, and ERC-20 Burn sites.

NOTABLE PROJECTS

Kaijukingz: Origins of STOD | Omni-chain Videogame and Dashboard Experience

- Built a full-stack decentralized application combining blockchain technology with a top-down interactive game experience using React, Tailwind, Firebase, Django, and Pixi.js. Integrated Web3 wallet connectivity to enable users to create and manage personalized in-game characters, with custom spritesheets generated server-side and stored on Firebase. Implemented smart contract interactions for token-gated game progression, ERC-20 token consumption, and omnichain-aware gameplay states. Interactive features such as a simulcast queue TV system, puzzle challenges, and parallax navigation, all synced to wallet state and transaction events. Solved technical challenges around real-time animation triggers, token conversion logic, and cheat-resistant game flows.

Kaiju Mart | Frontend Engineer

- Built a storefront for KaijuKingz where users could purchase physical and digital goods—including token traits—using credit cards, crypto, or the native ERC-20 token. Included on-chain trait updates and an internal dashboard for inventory management.

EDUCATION

Flatiron School | New York, NY **|** Software Engineer   12/2020 - 05/2021
University at Buffalo | Buffalo, NY   09/2018 - 05/2020
Queens College | Queens, NY   09/2016 - 05/2018