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Summary

Engineered high-performance Web3 applications using React, Next.js, ethers.js, and wagmi, ensuring seamless interaction with blockchain networks while maintaining an average loading time under 2 seconds. Prioritized user experience by implementing responsive design principles, enhancing accessibility for diverse users across decentralized platforms.

Experience

Rosie Lee Digital Frontend Developer Feb 2024 – Jan 2025

- -Enhanced page performance by decreasing load time by 38% and reducing HTTP requests by 25% through strategic asset management and caching techniques.
- -Pioneered innovative solutions tailored specifically for enhancing frontend interactions; directly contributed to fixing the 3 biggest causes of crashes reported during peak traffic periods through smart design choices.
- -Constructed robust CI/CD pipelines and automated testing frameworks, which accelerated deployment cycles by 40% while ensuring zero critical bugs emerged in production environments during releases.
- -Liaised daily with design and engineering teams, focusing on fluid feature integration; identified critical areas for improvement leading to a significant drop in reported bugs during product launches by over 25%.
- -Led coordinated efforts for bi-weekly sprint retrospectives alongside engineering peers; identified actionable insights resulting in reduced workflow interruptions by an average of 5 hours per week for developers.

Community Gaming Web3 Frontend Engineer Jun 2023 – Sep 2024

- -Developed a Tournament Chat feature leveraging WebSockets for real-time communication, facilitating direct interaction among users.
- -Optimized codebase by removing redundant code and libraries, resulting in a 20% reduction in code size, leading to improved maintainability and performance.
- -Boosted performance and SEO by implementing Next.js SSR features, ensuring faster load times and better visibility in search engines.
- -Integrated multiple smart contracts into the front-end using ethers.js and wagmi, enabling seamless interaction with decentralized applications.
- -Added comprehensive unit tests for functions and components using Jest and @testing-library/react, improving code reliability and reducing the likelihood of bugs.
- -Integrated bot-detection libraries to enhance the sign-in security, protecting against fraudulent access attempts.

Rango Exchange Web3 Frontend Developer Jul 2022 – Nov 2023

- -Engineered a blockchain extension using ether.js and the Compound Finance SDK, significantly enhancing platform integration with decentralized finance protocols, resulting in seamless transaction management.
- -Spearheaded the adoption of Test-Driven Development (TDD) with Jest, React Testing Library, and Storybook, achieving a 90% reduction in bugs and enabling faster, more reliable deployment cycles.
- -Rebuilt the company's legacy product with Next.js, Tailwind CSS, and Headless UI, optimizing load times by 25% and delivering a sleek, modern user interface that improved user engagement.

KOALA42 Frontend Developer Oct 2020 – Jun 2022

- -Developed high-performance web applications achieving 25% faster load times with full cross-browser compatibility and responsive design
- -Executed comprehensive integration of RESTful APIs for seamless data flow between applications, leading to a significant improvement in reporting accuracy and enhancing team efficiency.
- -Implemented a flexible modular UI system that facilitated rapid prototyping; enabled the team to conduct 8 user testing sessions in a single development cycle, gathering invaluable feedback for ongoing i mprovements.
- -Enhanced application speed by 25% through targeted performance testing and optimization strategies, ensuring a seamless user experience across all devices within 3 months.
- -Established unit testing frameworks, reducing user-reported issues by 8% per month.

Webstack Frontend Developer Jun 2019 – Oct 2020

- -Revitalized a multi-state organization's public-facing web infrastructure, enhancing user accessibility by implementing responsive design principles within 4 months.
- -Structured a user-centric interface for an internal health database, streamlining workflows for over 200 professionals.
- -Enhanced data processing speed by 30% through refined form-handling logic and real-time validation techniques.
- -Eliminated cross-browser inconsistencies within 4 weeks, ensuring a consistent user experience by leveraging advanced testing frameworks and user feedback.

Projects

Rango Exchange

Led the front-end development of Rango Exchange, the #1 cross-chain Dex and bridge aggregator, enabling seamless asset transfers across 70+ blockchain networks. Designed and implemented a smart routing algorithm, optimizing swap paths across Dexs, Dex aggregators, and bridges for cost-efficient and low-slippage transactions. Integrated multi-chain wallet connectivity, ensuring secure and frictionless user interactions. Developed a responsive, high-performance UI using react, next.js, ethers.js, and wagmi, enhancing usability across devices. Optimized real-time transaction monitoring, improving transparency and execution speed for decentralized trading.

Logitech G502 Game | Dialect Inc.

Directed the frontend development of an interactive competition-based game celebrating Logitech's G502 mouse anniversary. Created a multi-language interface supporting English, French and German to expand user reach. Implemented a progressive game state persistence feature, allowing players to seamlessly resume progress. Planned pixel-perfect UI elements based on high-fidelity wireframes, ensuring brand consistency. Streamlined rendering pipelines, delivering fluid animations and immersive interactive gameplay.

Blip Delivery Platform

Spearheaded the development of two large-scale e-commerce marketplaces, Blip Foods and Blip Marketplace. Constructed an advanced order management solution which improved real-time inventory tracking; this initiative reduced manual error rates by 25%, leading to more accurate customer deliveries on time. Designed AI-driven drone delivery logistics using DJI drone APIs and Google Cloud's Vertex AI, facilitating autonomous real-time navigation. Migrated the company's mobile applications from FlutterFlow to React Native, resulting in a seamless user experience across all platforms and enhancing user engagement by approximately 30% within 3 months post-launch. Established real-time analytics dashboards leveraging GCP's BigQuery and DataFlow, delivering actionable insights for operational enhancement.

Education

Dublin City University Bachelor's Degree in Computer Science Sep 2012 – Nov 2016

Skills & Abilities

- -Frontend Development: React.js, Next.js, Vue.js, Vuex, jQuery, TypeScript, JavaScript (ES6+), Redux, Tailwind CSS, SASS, HTML5, CSS3, Headless CMS, Content Management Systems (CMS)
- -Blockchain & Web3: Solidity, Smart Contracts, Ether.js, Web3.js, Ethereum, DeFi, NFTs
- -Backend & APIs: Node.js, Express.js, RESTful APIs, GraphQL, PostgreSQL, MongoDB
- -Testing & Quality Assurance: Jest, Selenium, Unit Testing, End-to-End (E2E) Testing, Chrome DevTools, Lighthouse
- -DevOps & Cloud: Google Cloud Platform (GCP), Vertex AI, Git, CI/CD Pipelines, Agile & Scrum Workflow
- -Tools & Collaboration: Jira, Trello, Figma, Cross-Browser Compatibility
- -Additional Expertise: Algorithm Optimization, API Performance Engineering, Cloud-Native Development, SSR, Pixel-Perfect & Responsive Design, Pixel-Perfect & Responsive Design