Pedro Gutiérrez Puente

SENIOR FRONTEND ENGINEER
WEB3 / DEFI

Building scalable onchain products with React, Next.js, ethers.js, wagmi, GraphQL, and Node.js.

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SUMMARY

Senior frontend engineer with **14+ years** building complex data-heavy applications and **8+ years in Web3**, from DeFi vaults and lending dashboards to AI-driven agent platforms. I specialise in React/Next.js frontends, SDKs for protocol integrations, and onchain UX that balances security, performance, and usability. I enjoy owning the end-to-end frontend architecture, collaborating closely with protocol and backend teams, and mentoring engineers.

SKILLS

Frontend / DX	TypeScript, React, React Native, Next.js (latest), modular frontend architectures, design systems, state management (Zustand/Redux), performance & accessibility optimisation.
Web3 / DeFi	Ethereum, smart-contract integrations, DeFi UX for vaults and loans, ethers.js, wagmi, viem, Merkl incentives, zkSync, multi-wallet connectivity.
AI-assisted development	Design of project-level AI rules/skills to prevent bugs early, enforce clean human-readable code, and avoid low-quality boilerplate; prompt-driven refactors, test-generation and documentation workflows integrated into the dev process.
SDKs & integrations	Design and implementation of JavaScript SDKs for external partners, aligning app and SDK layers, improving DX, and enabling faster integrations with protocol functionality and onchain data.
Tooling & collaboration	Node.js, GraphQL, REST APIs, testing (Jest, Testing Library), CI/CD, technical leadership, mentoring, close collaboration with protocol and backend teams in Agile environments.

EXPERIENCE

Senior Web3 Frontend Engineer · Blueprint Finance (Concrete)

07/2023 — 08/2026

- Architected the project and implemented the core DeFi app from the product designs using Next.js, React, ethers.js and wagmi, supporting close to **$1B in TVL** and a depositor base of **50k+ users** across multiple networks, and prototyped additional flows for onchain loan management.
- Architected a TypeScript SDK for partners and internal teams to integrate protocol functionality via JavaScript/ethers.js/wagmi, cutting integration work from **days to hours** and standardising how external apps talk to the protocol.
- Integrated smart contracts, backend APIs and Merkl incentive flows, keeping app and SDK layers aligned so new features ship once and are reused across both the UI and partner integrations.
- Set up AI-assisted development rules and project-level skills to catch bugs earlier, block low-quality AI-generated boilerplate, and enforce clean, human-readable code across the codebase.
- Built the React Native app for Hanbitco, a crypto exchange: coin market views and buy orders.

Next.js · React · React Native · TypeScript · ethers.js · wagmi · viem · Node.js · GraphQL · Merkl incentives · zkSync · Jest · Testing Library · CI/CD · AI-assisted dev tooling

Senior Web3 Frontend Engineer · Spectral Finance, Inc.

12/2021 – 07/2023

- Built an application around autonomous AI agents, each with its own AI-defined character, behaviour and native ERC-20 token, translating that model into a clear, intuitive user interface.
- Implemented the agent-token trading experience from the designs, blending DEX-style workflows, wallet connectivity, onchain transactions and frontend patterns into a cohesive product surface.
- Architected a modular frontend foundation and design system that supported rapid experimentation across dashboards, integrations and partner-facing apps while keeping UX and code consistent.
- Created SDK and integration layers for third-party applications, improving developer experience and making it easier for external teams to adopt Spectral primitives and onchain data.

Next.js · React · TypeScript · Ethereum · Web3 · Node.js · GraphQL · The Graph · Testing · CI/CD

Frontend & Blockchain Architect · Keyko GmbH

08/2019 – 01/2022

- Designed and maintained the main TypeScript SDK/API to interact with Keyko smart contracts, giving internal and external apps a consistent, well-typed way to integrate onchain functionality.
- Created a Node.js GraphQL framework for consuming private Web3 data.
- Refactored and redesigned Ethstats, an Ethereum network monitoring tool, improving real-time dashboards and the readability of chain metrics.
- Built dashboards and visualisations on top of Blockscout data, helping users inspect and understand Ethereum network activity.
- Contributed to Valora Wallet, Celo Foundation's React Native mobile wallet: frontend flows and contract integrations for secure account handling.

Angular · React · React Native · TypeScript · Ethereum · Node.js · GraphQL · Testing · CI/CD

Frontend & Blockchain Architect · Ocean Protocol Ltd.

01/2019 – 11/2019

- Developed and optimised the main SDK/API used by external developers to connect their applications to Ocean smart contracts and protocol business logic.
- Collaborated with product and backend teams to ensure the SDK stayed aligned with protocol changes, keeping integrations stable while the core platform evolved.
- Integrated frontend and backend components with the smart-contract layer, reading and understanding the existing contracts to ensure the SDK and product flows behaved correctly onchain.

HTML5 · CSS3 · JavaScript · React · Node.js · Ethereum · Solidity · ZeppelinOS · Parity

Frontend Architect · PredictX Ltd.

07/2016 – 01/2019

- Architected and modularised the UI and chart layers shared by every company application, built with SASS and Angular (2, 4 & 5, upgraded progressively).
- Led development of the core product applications: dashboarding tools, data management software and computation-engine management.
- Built a Jenkins framework handling all CI workflows across languages (Java/Kotlin, JavaScript/TypeScript, Docker).

HTML5 · CSS3 · JavaScript · Angular · SASS · D3 · Jasmine · Node.js · TDD · Jenkins · Groovy

EARLIER ROLES

Frontend Architect · Stratio Big Data, Inc. 07/2015 — 08/2016

Lead Developer · Nutrytec 06/2014 — 07/2015

Web Developer · New Rent Free 03/2013 — 03/2014

Writer (Development Topics) · Genbeta Dev 09/2012 — 12/2014

Web Developer & Designer · Freelance 06/2012 — 06/2016

RECOMMENDATIONS

View on LinkedIn

> I've had the absolute pleasure of working alongside Pedro at Concrete, and I can confidently say he is an exceptional asset to any engineering team.
>
> Pedro combines technical excellence with an extraordinary eye for detail and uncompromising standards. Pedro contributes meaningfully towards the user experience while ensuring the underlying code is robust and scalable. He has an innate ability to spot gaps across the product lifecycle and steps in seamlessly to bridge them before they become blockers.
>
> Pedro has an exceptional understanding of DeFi and crypto in general.
>
> Always a team player, Pedro elevates the performance of everyone around him. I would love to work with Pedro again in the future.

Conor Fallon · **Lead Designer**, Blueprint Finance (Concrete) same team · 08/2026

> Pedro is one of those engineers you stop worrying about once you hand something over!! He has real depth in DeFi frontend work, which is narrower than it sounds: wallet flows, transaction states that fail in ten different ways, and live vault data where a display bug is a trust problem rather than a cosmetic one. On a frontend team of two he owned features end to end without needing to be chased, and did it at a steady pace that held up over multiple sprints. Any team building a serious onchain product would be lucky to have him.

Gustavo Silva · **Engineering Manager**, Blueprint Finance (Concrete) direct manager · 08/2026

SELECTED WORK

Koi Finance, dapp.koi.finance

The Grid (Spectral Finance), app.thegrid.ai

Concrete App, app.concrete.xyz/earn

Shiny Run, personal project, shiny-run.com

EthKudos, personal project, github.com/Pedro-vk/EthKudos

Koi Finance UI, dapp.koi.finance/dev/ui

EDUCATION & TRAINING

FPGS Web Applications Development 2013 — 2015

FPGM Microcomputer Systems and Networks 2011 — 2013

Continuous self-learning in AI-assisted development, Web3/DeFi, frontend architecture, Agile/Scrum, and digital product disciplines.