

Oleh Kruchai

Full-Stack Engineer · Web3 · AI

Ukraine · remote worldwide

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SUMMARY

Full-stack engineer with 10+ years of experience building scalable production software — from UFC.com and the world's largest German-language dictionary to national climate infrastructure. Spent four years at Reneum / A6 Labs architecting and delivering a blockchain-based Article 6 carbon registry for the Government of Zimbabwe, now carrying over 2 million issued mitigation outcomes. Work across the full stack daily — TypeScript, React, Next.js, Node.js, PostgreSQL — with deep experience in API design, smart-contract integration, containerized deployments (Docker, 8+ years), and team leadership. AI-native engineer: built RAG systems and multi-model orchestration pipelines, actively use MCP integrations, and apply AI across coding, architecture, debugging, testing, and documentation as a core part of delivery.

EXPERIENCE

Lead Front-End Developer — Reneum / A6 Labs

July 2022 — June 2026 · Remote *Stack: TypeScript · React · React Native · Node · Solidity / smart contracts · design systems*

Joined as the company built RWA tokenization products; stayed through its evolution into A6 Labs (founded January 2025), focused on Article 6 of the Paris Agreement (6.2, 6.4, 6.8).

Zimbabwe Carbon Registry (2025–2026) — Led the frontend for the world's first blockchain-based national carbon registry under Article 6, built for the Government of Zimbabwe (live at zicma.org.zw). Mandatory national infrastructure: all carbon project developers must register and transact through the platform, in a market supplying roughly 12.5% of Africa's carbon credits.

- Delivered the platform now carrying **2,024,197 issued mitigation outcomes (tCO₂e)**, **1,307,855 corresponding adjustments** reported under the Paris Agreement, and **20,767 retirements** across 25 registered projects and 333 users (*as of July 2026*)
- Architected the frontend from scratch as a configurable, multi-country SaaS platform — a hybrid layout system serving the public registry, developer onboarding, and the internal admin panel from one codebase
- Built data-heavy interfaces for credit issuance, transfer, retirement, and certificate registries, integrating blockchain and smart-contract flows into a UI usable by non-technical government and developer users
- Implemented a token-based design system in close partnership with the design team

- Led a team of three engineers (senior, mid, junior), mentoring across levels and setting frontend standards

RWA & carbon tokenization platform (2022–2024) — Built the platform for trading and issuing tokenized environmental assets: carbon credits and renewable energy certificates representing megawatts generated by solar, wind, and other near-zero-footprint sources, with certification issued on-chain.

- Delivered the trading platform used by both credit producers and traders
 - Built certificate issuance and verification interfaces backed by blockchain records, across web, mobile, and tablet
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Senior Developer — Duden (duden.de)

2021 · Kyiv Stack: *PHP · Drupal · Headless React · JavaScript*

Senior developer on duden.de — the world's largest German-language online dictionary.

- Built and maintained features for a high-traffic reference platform serving millions of German-speaking users
 - Part of the team developing a spell- and grammar-checking service, a German-language counterpart to Grammarly
 - Worked in a headless architecture: Drupal and PHP on the backend, React on the frontend
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Full-Stack Developer — Endeavor (UFC.com)

2019 — 2020 · Kyiv Stack: *PHP · Drupal · JavaScript · GSAP · Advanced CSS · Animation*

Full-stack developer on UFC.com — one of the highest-traffic sports properties in the world.

- Built features across the stack: Drupal and PHP on the backend, JavaScript on the frontend
 - Delivered advanced animation and interaction work with GSAP under real performance and scale constraints
 - Contributed to a flagship, globally recognized product
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Earlier

Full-stack, frontend and web development roles, 2016–2019.

SKILLS

Languages: TypeScript · JavaScript · PHP · Solidity

Frontend: React · Next.js · React Native · advanced CSS · GSAP · animation · design systems (token-based)

Backend: Node.js · Express · REST/GraphQL API design · PostgreSQL · MongoDB

Infrastructure: Docker (8+ years) · CI/CD · containerization · server deployment · cloud platforms

Web3: smart contracts · on-chain data · wallet integration · RWA tokenization

AI & engineering: RAG systems · multi-model orchestration · MCP integrations · AI-native development workflow

Domain: Article 6 (6.2 / 6.4 / 6.8) · Paris Agreement · carbon registries · MRV · renewable energy certificates

Working: technical leadership · mentoring · SaaS product development · fluent English · remote-first

EDUCATION

MSc, Computer Science — Lutsk National Technical University, 2018 Specialization: Information Control Systems and Technologies