

Kiryl Berasneu

Senior Backend and Blockchain Engineer

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Summary

Backend engineer since 2012. In blockchain since 2016: smart contracts, cross-chain systems, indexers, transaction processors. Builds and operates production services end to end: architecture through deployment, monitoring, and reliability. Has taken early-stage blockchain services to production, owned core systems other teams build on, led developer tooling and partner integrations, and mentored engineers. Deep with EVM networks, L1/L2, and cross-chain intents.

Experience

Senior Backend and Blockchain Engineer, Solver Team, LI.FI – Remote 2025 – present

Backend engineer on the Solver team building production infrastructure for cross-chain intent execution: transaction processing, solver operations, backend integration, and execution reliability.

- Deployed and operated Solver in production, owning the deployment pipeline end to end: built the Docker image, set up the CI/CD pipeline, and made proactive fixes to the existing Terraform setup. Partnered with the DevOps team where needed.
- Built the full Solver monitoring system from scratch: Prometheus metrics and Grafana dashboards covering intent processing, transaction execution, and service health.
- Helped the early-stage Solver service surpass \$1M+ in transferred value, processing production intents reliably.
- Took the Solver service from early draft to production readiness, and stabilized it along with the underlying Wallet service used for transaction execution.
- Implemented cross-chain inventory rebalancing from scratch, managing Solver liquidity across supported routes and chains so intents process reliably.
- Led Solver-side integration with LI.FI's production backend, adapting Solver architecture and interfaces to fit.
- Built end-to-end test coverage from scratch and wired it into CI, giving the team a foundation for safer rapid development, and made the repo better suited to AI-assisted and agentic coding workflows without dropping production quality.
- Implemented dynamic route configuration, letting operators change route parameters on the fly without redeployment.
- Proposed and scoped a Wallet service overhaul to mitigate double-spending risk: identified design flaws and laid out a move to EOA-based execution with predictable nonce management. Another team later picked it up and shipped it.

Senior Backend and Blockchain Engineer, Core Team, Unstoppable Domains – Remote 2022 – 2025

Owned the core blockchain platform other product teams built on.

- Owned the core smart contracts and the consumable wrappers around them that other product teams (integrations, developer tools, ecommerce) built their features on.
- Architected and implemented a blockchain-based domain names marketplace using Seaport Protocol, leading backend and blockchain development from research through smart contract implementation.
- Built a custom blockchain indexer covering the full historical ENS domain set (millions of domains) with an eventual-consistency approach for events from an unbounded set of resolver contracts across Ethereum.
- Developed cost-effective DNS domain tokenization on the ENS registry: chose RSA/SHA-256 (EVM modexp precompile) over pure-Solidity P-256, cutting on-chain verification gas $\sim 2\text{--}3\times$.
- Optimized Seaport-js bulk signature computation, a CPU-bound bottleneck, cutting request time from 30–120s to 1–2s.
- Implemented a secure approach for storing and using EVM private keys without sacrificing performance.

Lead Developer, Developer Tools, Unstoppable Domains – Remote 2020 – 2022

Led developer tooling for blockchain integration: SDKs, CLI, and partner integrations used by external teams.

- Designed and built SDK libraries across multiple languages, plus a cross-platform CLI tool and Golang library from scratch.
- Led partner integrations with Brave Browser, Blockchain.com, Alchemy, Trust Wallet, and Litecoin Wallet.
- Simplified partner integration to a one-liner.
- Led the Twitter account verification feature using Chainlink, writing results to blockchain domains.
- Initiated and led Android and iOS integration libraries.
- Integrated blockchain tests into CI/CD, improving code quality and reliability.
- Optimized blockchain data retrieval and processing for better performance.
- Mentored junior developers and coordinated cross-functional work.

Blockchain Developer , DreamTeam – Remote	2018 – 2020
• Built game analytics and a replay viewer for Counter-Strike: Global Offensive, parsing and analyzing 100+ replays (up to 700MB each) simultaneously. • Developed smart contracts for team token vesting. • Implemented secure Ethereum private key storage and signing solution using HashiCorp Vault. • Replaced a laggy third-party payment aggregator with an in-house solution unifying PayPal, Stripe, and crypto payments. • Won the ENS prize at the ETHCapeTown hackathon.	
Senior Backend and Blockchain Developer , Smartum Pro – Remote	2016 – 2018
• Developed Ethereum-based ICO smart contracts with 100% test coverage. • Created payment processing for Bitcoin and debit card payments. • Built a real-time messaging system using RabbitMQ with MQTT for mobile and web. • Automated code review and deployment, integrating quality review into the SDLC. • Operated as a fully remote engineer from 2016, years ahead of the industry's shift to distributed work.	
Ethereum Blockchain Developer , CoTrader – Remote	2017
• Built the full ERC-20 token contract and token distribution contracts for an ICO.	
Senior Backend Developer , Self-employed – Remote	2015 – 2016
• Built a data warehouse for sports statistics using Laravel, MongoDB, and PostgreSQL. • Designed a flexible, modular architecture for easy integration of new data sources. • Implemented data scraping, normalization, and visualization modules.	
Backend Developer , CJSC "Editorial office of the Bulletin Stroyka" – Minsk, Belarus	2015 – 2015
Backend Developer , iTechArt Group – Minsk, Belarus	2014 – 2014
Backend Developer , CJSC Internet-District – Mogilev, Belarus	2012 – 2014

Education

EPAM Master's Program in Software Engineering , Coursework	2019 – 2021
Mogilev State Polytechnic College , Associate's Degree in Computer Programming	2008 – 2012

Skills

Blockchain: EVM chains: Ethereum, Polygon, BSC, Avalanche, Arbitrum, Optimism, Base, Fantom, Cronos, Celo, Gnosis Chain, and others; L1/L2 solutions, cross-chain bridging, cross-chain intents, solver infrastructure; DeFi infrastructure: solver liquidity, cross-chain execution; smart contracts (Solidity); cryptographic principles (asymmetric cryptography, Merkle trees); Seaport Protocol, ENS, UNS, blockchain domains, decentralized identity; EVM indexers, transaction processors, wallet services, nonce management, meta transactions

Languages: TypeScript, JavaScript, Solidity, Golang, PHP

Frameworks: OpenZeppelin, Express, NestJS, Routing Controllers, Symfony

Databases: MySQL, MongoDB, PostgreSQL, Redis

Messaging: RabbitMQ, BullMQ, MQTT, AMQP

Cloud & DevOps: AWS, Google Cloud, Kubernetes, Docker, Terraform, Ansible

Observability: Prometheus, Grafana, production monitoring, dashboards, alerting

Architecture: C4 Model, UML, design patterns, distributed systems, highload systems, REST APIs

Practices: CI/CD; testing (end-to-end, integration, unit) and test automation in CI; AI-assisted and agentic coding workflows