Pylyp Radionov

Fullstack Engineer & Product Architect

Remote (Europe Timezones) | me@mr13.tech

🌐 mr13.tech | linkedin.com/in/mr13tech/ | github.com/mr13tech

+380932610010 (telegram, whatsapp, signal)

PROFILE

Fullstack engineer with 7+ years building at the intersection of blockchain, big data, and distributed systems. Built the first Ethereum internal transaction indexer in the AML/compliance industry (2017) — a C++ solution that processed 4M blocks in 6 hours on 256MB RAM.

Currently focused on **AI-augmented engineering**, utilizing Spec-Driven Development to accelerate architecture and delivery. Comfortable across the full stack, from low-level protocol work and ZK circuits to high-conversion React frontends. I enjoy mentoring engineers and owning product outcomes, blending technical execution with strategic decision-making.

SKILLS

Advanced AI Workflows

- **Spec-Driven Development (SDD):** Utilizing LLMs to architect rigorous technical specifications before implementation, ensuring edge-case coverage and reducing architectural debt.
- **Agentic Coding:** Expert in controlling AI coding agents (**Aider, Claude Code, Gemini CLI**) to automate complex refactoring, unit test generation, and documentation maintenance.
- **Rapid Prototyping:** Leveraging generative workflows to shorten the "Idea-to-Prototype" cycle, allowing for faster validation of product hypotheses.

Technical Stack

- **Languages:** Solidity, TypeScript, C++, Java, Python, Golang
- **Frontend:** React, Next.js, Tailwind, Shadcn UI, TanStack Query, Figma
- **Blockchain:** EVM internals, Hardhat, Foundry, Viem, Ethers.js, IPFS/Filecoin, Circom (ZK circuits)
- **Other:** Apache Spark, MapR, Hadoop, Neo4j, SQL/NoSQL, GCP, Docker, Linux

EXPERIENCE

SmartMerchant | Remote

Product Engineer (Frontend Lead) | Sep 2025 – Feb 2026

Acting as the bridge between Engineering, Design, and Product for a B2B platform connecting shop owners with wholesalers.

- **Legacy Migration & Modernization:** Orchestrated the strategic migration of the platform from a legacy PHP solution to a modern **Next.js** architecture. Re-engineered the frontend using **Tailwind**, **Shadcn UI**, and **TanStack Query**, resulting in measurable improvements in load times, responsiveness, and user feedback loops.
- **Product Ownership & UX Strategy:** Owned the V2 Product Vision and user flow architecture. Transformed high-level business requirements into seamless technical specifications. Led data-driven decision-making regarding user journeys, directly optimizing the UI for higher conversion rates and retention.
- **Technical Leadership:** Led frontend delivery for a 4-person agile squad. Established a component-driven development environment that reduced feedback times and allowed the team to iterate rapidly on new features.

Copernic Space | Remote

CTO | Jan 2021 – Dec 2023

Independent Contractor | Jan 2024 – July 2025

Web3 marketplace for tokenizing space industry assets — satellites, payloads, mission capacity.

- Architected EVM smart contract protocol using Factory patterns and recursive ERC-1155 token relationships for representing hierarchical space assets.
- Designed gas-optimized contracts with comprehensive fuzz testing coverage.
- Built custom Subgraph indexer for real-time on-chain data and IPFS/Filecoin integration for decentralized metadata storage.
- Developed full-stack React/Next.js application with Sign-In with Ethereum (SIWE) and Firebase.
- Led technical decisions and mentored a team of 3-5 engineers across distributed timezones.
- Company raised $1M total funding.

Zee Kaptcha | Remote

Zero-Knowledge Protocol Engineer (Contract) | Jan — Mar 2024

Privacy-preserving CAPTCHA verification using zero-knowledge proofs.

- Developed Circom circuits for on-chain CAPTCHA verification without exposing user data.
- Built proof generation and verification infrastructure from scratch — implemented custom Powers of Tau ceremony setup, proof generator, and verifier smart contract.
- Prepared open source release of the solution.

Firelabs | Remote

Tech Lead | May — Aug 2021

Mirror trading platform for fintech client.

- Led team of 4 engineers delivering full-stack Web3 trading platform.
- Built Golang backend and React frontend supporting high-concurrency transactions.
- Structured Agile workflows and delivery milestones under tight deadlines.

Coinfirm | Warsaw, Poland

Software Engineer — Big Data & Blockchain Analytics | Apr 2017 — Dec 2020

Blockchain analytics platform for AML compliance.

- **Performance Engineering:** Built the first Ethereum internal transaction indexer in the AML/compliance industry (2017). Wrote a C++ indexer processing the full chain (4M blocks) in 6 hours using only 256MB RAM on a standard laptop.
- **Data Pipeline Architecture:** Designed ETL pipelines mapping Ethereum data to SQL and Neo4j graph databases, enabling relationship analysis for compliance investigations.
- Extended indexing infrastructure to Bitcoin and UTXO chains (Litecoin, Dash).
- Engineered MapR and Apache Spark clusters for historical blockchain analysis and automated node operations to handle peak network activity.

HACKATHONS & OPEN SOURCE

- **Decentralized Cleanup(open-source):** Contributing infrastructure to verify real-world environmental cleanups on-chain via impact NFTs.
- **12h.finance (ETHGlobal StarkHack 2024):** RWA collateral engine linking stock markets to crypto borrowing.
- **unid.store (ETHGlobal HackFS 2023): Winner:** 🥇 IPFS — Best Use — Decentralized file sharing on Filecoin.
- **0xKYC (ETHWarsaw 2022):** Co-founder/CTO — Decentralized identity; secured pre-seed funding and VC accelerator.

EDUCATION

B.Sc. Computer Science — Polish-Japanese Academy of Information Technology, Warsaw, Poland

M.A. International Economic Relations — Odesa I.I. Mechnikov National University, Odesa, Ukraine