Nik Rykov

Software Developer | Protocol Engineer
UI/UX Designer | Team Manager

About Me
Experienced software developer, product/protocol engineer, designer, founder and an individual with the skills necessary to push projects to the production stage and ensure smooth growth afterwards.

Skills
Protocol Design & Research, JavaScript, C++, Vue.js/Nuxt, Node.js N-API Addons, UI/UX Design, Diagramming, Startup Leadership, Project Management, Public Speaking, Blockchain, Philosophy.

Experience
Highlayer
Role: Founder/CTO
Time: 2023-2024
At Highlayer, I led a team developing a state-of-the-art architecture for a high-throughput bitcoin rollup, implementing the essential network components and successfully launching testnet of the product.

WeaveVM
Role: Technical Advisor
Time: 2024-Present
I advise WeaveVM on technical details of its product, ensuring the architecture of the product is sustainable and reliable while remaining decentralized and trustless.

Stargaze.zone
Role: Software Developer (Part-time)
Time: 2022-2023
At Stargaze, I worked on developing Stargaze Names and the toolset around it. The toolset included Stargaze Pages, DNS server, DNS registry backend/UI, Handshake integration, etc.

Arweave

Role: Software Developer
Time: 2021-2023
At Arweave, I designed ecosystem tooling, architected systems and innovative applications/protocols that push forward the ecosystem and state of the cryptocurrency space as a whole. My research and development helped kickstart the AO project - hyperparallel smart contract platform. I also prototyped first data access network during that time.

Handshake

Role: Ecosystem Contributor
Time: 2021-Present
The idea of decentralized, trustless domains/websites appealed to me, thus I joined the development of the Handshake ecosystem by contributing to the project and various ecosystem tools, including bridge to traditional web, second-level (SLD) domain tooling, coin bridges, resolvers and more.

FindADiscord.com

Role: Sole Developer
Time: 2019-Present
After developing a bot catalog, I joined forces with creators of /r/discordservers (largest community for discovery of the discord servers) to make an application that to this day helps people in connecting with communities they might be interested in.

Top Bots Catalog (shut down)

Role: Founder
Time: 2017-2019
My first major venture as a developer and founder (after developing Discord bots).
I developed majority of the codebase and managed to get service to 120,000 monthly-active users.

Research

Cryptographic Subkeys in Decentralized Applications
Year: 2023
Link: https://github.com/angrymouse/papers/blob/main/subaccounts.md

Data Access Networks
Year: 2022

Link: https://github.com/angrymouse/papers/blob/main/data-access-networks.md

Relay-ring signature-based automated wallet system
Year: 2022

Link: https://github.com/angrymouse/papers/blob/main/relay-ring-protocol.md

Tradable NFTs in absence of smart contracts
Year: 2023

Link: https://arweave.net/oIrgzZt3UBW9ct_WzIVTxO6XO1w1AJKJEsrncJJ2IAI

Highlayer: A New Architecture for Effective Rollups
Year: 2024

Link: https://highlayer.io/litepaper.pdf

EIP-7689: Smart Blobs
Year: 2024

Link: https://ethereum-magicians.org/t/erc-7689-smart-blobs/19672

Education
Kharkiv Lyceum №119

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