

Ivan Balkashynov

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Experience

Software Engineer | DMG Blockchain | Remote **Nov 2023 - Present**

- Developed institutional custodial and retail non-custodial wallets using React, TypeScript, NestJS and PostgreSQL within a microservices architecture, implementing RBAC, multi-party approval workflows and portfolio tracking.
- Built an LLM wallet assistant on Amazon Web Services (AWS) using Bedrock, backend APIs and RAG over internal data; added evaluation pipelines that improved top-5 retrieval hit rate from 72% to 88%.
- Co-designed the architecture and built Golang telemetry services for 10,000+ Bitcoin miners, using MongoDB, Redis, Kafka and RabbitMQ for real-time monitoring and alerting.
- Built a fleet-management portal for remote miner control, device grouping, bulk operations and scheduled automation, displaying operational data from an analytics database.

Software Engineer | GrainFox | Winnipeg, MB **Oct 2022 - Sep 2023**

- Shipped trading and farm-management features for a platform serving hundreds of Canadian producers using React, TypeScript, NestJS, and PostgreSQL.
- Developed grain-marketing recommendation tooling combining customer, commodity-market, and third-party data to support pricing and sale decisions across millions of dollars in agricultural inventory.

Backend Developer | BotsNet | Kyiv, Ukraine **May 2021 - Oct 2022**

- Developed Python backend services, APIs, and messaging automation serving 20,000+ users across data, notification, and trading workflows.
- Implemented real-time integrations with 5+ cryptocurrency exchanges, processing market, order, and account data for automated trading systems.
- Deployed Solidity smart contracts across multiple EVM-compatible networks and integrated on-chain transactions with Python backend services.

Projects & Achievements

Tings | Perpetual Futures Exchange (Co-Founder & Engineer) **tings.xyz**

- Co-founded and built a Hyperliquid-based derivatives exchange for non-traditional markets including weather, unemployment, and BTC hash rate, reaching 300+ monthly users.
- Owned the product and technical stack, including the trading interface, backend services, real-time market-data pipelines, on-chain integrations, infrastructure, and protocol specification.

LayerZero Blockchain Fraud Detection Competition | Top 15% **LayerZero Competition**

- Won \$15,000 in LayerZero's OSINT competition by building custom clustering algorithms that identified 20,000+ linked fraudulent wallets from public blockchain data.

hlout.xyz | Digital Asset Recovery **hlout.xyz**

- Built a recovery interface for users unable to access a crypto exchange's main application, enabling withdrawals of more than \$10,000 in otherwise locked assets.

Technologies

Languages: TypeScript, JavaScript, Python, Golang, SQL, Java, Solidity

Frameworks: React, Next.js, NestJS, Django, Flask, FastAPI, REST APIs, WebSockets

Data & Infrastructure: PostgreSQL, Redis, Kafka, Docker, Kubernetes, AWS, GCP, GitHub Actions

Education

University of Manitoba **Oct 2024**

Bachelor of Science in Computer Science | Minor in Mathematics | Winnipeg, MB