

# Ivan Balkashynov

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## Education

University of Manitoba, BS in Computer Science

2019 – 2024

- **Minor:** Mathematics
- **Coursework:** Advanced Algorithms and Data Structures, Distributed Systems, Advanced Databases

## Technologies

**Languages:** TypeScript, Go, Python, Java, SQL, Solidity

**Frameworks:** React, Next.js, NestJS, Django, Flask, FastAPI

**Infrastructure:** PostgreSQL, Redis, Kafka, Docker, Kubernetes, AWS, GCP, Cloudflare, Vercel, GitHub Actions

**Other:** REST APIs, WebSockets, OAuth 2.0, JWT, RBAC, Sentry, EVM, Ethers.js, Telegram Bot API

## Experience

**Software Engineer**, DMG Blockchain – Remote (Delta, BC)

Nov 2023 – Present

- Own full-stack features end-to-end in React, TypeScript, and NestJS — shipping weekly with high autonomy.
- Rewrote and optimized complex PostgreSQL queries and schemas that were bottlenecking production.
- Built secure REST APIs with OAuth 2.0, JWT, and RBAC for merchant-facing client applications.
- Integrated financial APIs for payment and settlement flows in a 0-to-1 product environment.
- Manage deployments across Docker and Kubernetes in production.

**Software Engineer**, GrainFox – Winnipeg, MB

Oct 2022 – Sept 2023

- Built React frontends and NestJS backend services on a fast-moving product team in agricultural fintech.
- Implemented backend features for real-time financial calculations used by grain merchants.
- Integrated third-party automation services end-to-end, reducing manual operational overhead.
- Built authentication and authorization flows with OAuth and RBAC for enterprise clients.

**Backend Developer**, BotsNet – Kyiv, Ukraine

May 2021 – Oct 2022

- Built an internal SaaS dashboard for managing company products using Python and Solidity.
- Developed Telegram bots for automation and high-frequency trading tools for Binance.
- Wrote and deployed Solidity smart contracts on EVM chains.

## Projects

**Tings – Crypto Derivatives Exchange** (*Co-Founder & Engineer*)

tings.xyz | Docs

- Building a derivatives exchange for exotic perpetuals (weather, unemployment, macro indicators) on Hyperliquid's infrastructure.
- Designed and built the full trading terminal from scratch — frontend, backend, real-time data pipelines, and on-chain integration.
- Wrote the protocol documentation and technical specification for the exchange architecture.

**ApplyNow – Winnipeg Tech Job Aggregator**

applynow.dev | GitHub

- Built a minimalistic job board that scrapes and aggregates Winnipeg software jobs from multiple sources.
- Microservice architecture using Python, TypeScript, MySQL, and Docker. Deployed on Vercel and AWS with CI/CD.

**LayerZero OSINT Competition**

Link

- Developed algorithms to identify and cluster over 20,000 sybil wallets from on-chain and open-source data.
- Earned a \$15,000 bounty for contributions to airdrop eligibility verification.