

# Ilia Batii

## Generalist / DevOps / Fullstack

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## Profile

I'm contributing to various projects in the Starknet ecosystem. My main interests lie in DevOps for protocol engineering, blockchain research, ZKP technologies for decentralised computation in connection to the gaming industry.

I am a mathematician (with 5 years university training, bachelor degree) and generalist software engineer (>15 years of experience).

I've contributed:

- [Starknet.py](#) (SNIP-9)
- [Starknet Quest](#) - main landing redesign
- [DipDup Stone Packaging](#)
- [DipDup.io](#)
- [Cairo Fixed Point math library](#)
- [Raito](#) - Implemented part of the UTREXO accumulator for Bitcoin ZK Client
- [Starknet.go](#) (fixing issues connected to outdated CASM format)
- [Ekubo protocol governance](#)

I've created:

- Cairo Fixed Point math library - [link](#)
- Simple rust server for calculating BTC/USD TWAP using data from Pragma oracle - [link](#)

I'm currently building:

- Auctions protocol in the TON ecosystem and auction making dApp(miniapp) in Telegram. [link](#)
- [Terraform provider for starknet](#) (heavy WIP)

For those who understand:

[NodeGuardians](#)

[OnlyDust](#)

[GitHub](#)

I speak: Python, Kotlin, Golang, Cairo, Typescript, Rust and a bit of Solidity.



**Self-employed** – London, UK

**Protocol + dApp developer.**

2024 - today

*Building a strong profile in the crypto space. Pursuing entrepreneurial endeavors.*



**Zamna** – London, UK

**Founding Engineer focused on platform and product development.**

2017 - 2024

*SSI for the Airline Industry. We've built a secure (initially decentralised) ledger for storing facts about sensitive data without storing data itself. But allowing the party that knows the data to check against facts.*

- Created and maintained cross cloud infrastructure using k8s in AWS and IBM cloud. Implemented various services in Golang to support our cryptographic protocol and Python to integrate computer vision systems.
- Supported historical data upload of 15M passport checks.
- Supported project integration processes with British Airways, Jetblue, Volaris.



**EzHome** – Palo Alto, US, Remote

**Fullstack Developer. Growth Team**

2016 - 2017

*Uber for Gardeners and Home services in Silicon Valley*

- Implemented social authentication, integrating OAuth providers (Facebook, Nextdoor, Gmail). Customized the Django OAuth plugin to merge multiple social accounts under one email, improving the user experience. Built password-less authentication.
- Integrated an ML model (AWS Lambda) to predict gardening service prices instantly, cutting manual estimation delays from 2 weeks to 1 day. This innovation reduced user signup time from 2 weeks to 2 days and was fully automated for continuous model updates.
- Created a Django-based application for managing postcard sending marketing campaigns, embedding service price estimates and short signup codes for easy user recall.



**Travelab** – Indonesia, Bali

**Technical Lead**

2015 - 2016

*Dynamic tour packaging solution. Query travel facility providers and assemble tours in real time according to user requests.*

- Introduced Docker. Created CI Pipelines. Setup deployment process.

- Integrated analytics collection into the project using Graphene. Built a Grafana dashboard.
- Found service bottlenecks and inefficiencies, proposed mitigation strategies, supported improvements on the side of infrastructure. Migrated from Redis to Aerospike.
- Developed integration with 2 DSC systems.



**emergingtravel.com / ostrovok.ru** - Russia, Moscow

**Tech Lead of Extranet Development Team.**

2011 - 2015

*One of the leading hotel booking providers. Currently - Emerging travel. Local Booking.com competitor.*

- Designed and developed a high-load [Extranet](#) application, scaling the team from 2 to 7 engineers.
- Led sprints, stand-ups, and external communications, driving efficiency and alignment.
- Owned business process automation, liaising with product owners to analyze requirements, prototype, and launch successful solutions.
- Built a self-documenting REST framework for Django, supporting multiple API versions (custom alternative to Swagger).
- Developed a high-performance distributed task management system, outperforming Celery in speed, to handle mailings and price recalculations with real-time monitoring.
- Optimized PostgreSQL databases & SQL queries, improving system performance and supporting large-scale data migrations.
- Conducted code reviews and mentorship, elevating the technical expertise of the engineering team.

## Education

**Moscow State University of Railroad Engineering (MSU RE)**

**Bachelor Degree** (5 years) in **Applied Maths**

2003 - 2008

## Contests

2025.04.28 [Tact Smart Battle](#) rank: 139/665 rating: 1002.5