

Iakov Litvin

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Product-first fullstack engineer

[LinkedIn](#) | [GitHub](#)

Skills

languages: English, Russian

- Languages: JavaScript (16 years), TypeScript (7 years); Python, FunC/Fift, Go, PHP, sh/bat;
- Frontend (since 2010): html/css/js; React, Vue; Zustand, Redux, MobX, Vuex; Next;
- Backend (since ~2020): Node.js, Express, Hono, tRPC, Nest.js; Python, Flask, Django; Go;
- PostgreSQL, MongoDB, CouchDB; Prisma;
- HTTP, REST, GraphQL (Apollo client), WebSocket/STOMP; Telegraf.js, SMTP, DKIM; Swagger;
- Web3: TON Contracts design, FunC; EVM chains, Solana DApps, APIs; Blockscout;
- Autotesting: TDD; Vitest/Jest/Mocha, Cucumber, Cypress/Synpress, Pytest;
- DevOps: Unix, Nginx, certbot, pm2, etc; Docker, Kubernetes, AWS; Github Actions, CD;
- Extracting problems, expectations, key metrics; proposing solutions, explaining limitations to business; communicating business goals, decomposing tasks for engineers or AI;
- System design & development, deployment/delivery, writing docs & presenting to clients;
- AI-coding; project management, mentoring; self-management, fast learning new tech.

Experience and Achievements

Fullstack and contracts engineer | A crypto startup (team size: 10-15) 07.2024-12.2025

Responsibilities: design & implementation of TON Contracts, indexer backend, demo frontend; design, coding, and leading implementation of a Solana memecoin checking and trading bot.

Achievements: designed and implemented contracts in *FunC (TON Blueprint)*: a Jetton factory (launcher), AMM functionality (Pool contracts), a DEX-like solution; a demo DApp (*React, TypeScript*); designed the indexer to list created Jettons and operations with them, implemented it in *Go, PostgreSQL*. Built autotests, maintained security and anonymity.

Designed some of the blockchain heuristics (*Solana*) and the solution to scan tokens, implemented most of it (*APIs: RPC, Solscan; REST + workers: TS, Node.js, Hono, PostgreSQL, Prisma; Chrome Extension: TS, React, WXT; Telegram bot*), lead dev, extended it into a trading bot (*Pumpfun AMMs*).

- 05.2024 Implemented an MVP [Android app](#) (*React Native*) and a [backend](#) (*Python, Flask, Together.ai*) for summarizing YouTube, deployed and delivered within 1.5 days;
- 05.2024 Implemented the [Gift Cards app](#) in 2 weeks (*React, GraphQL: Apollo Client, Docker*);
- since 2020 Designed and built several frontend and fullstack apps with *TypeScript, Vue, React, Express/Nest.js, Python/Flask, CouchDB/PostgreSQL/file storage, deployed on VPS, set up TDD (Vitest, Pytest)* and *CD (Github Actions)* for some of them;

Fullstack/DevOps, Software analyst | K-22 & IQ (team size: 5-25) 04.2021-01.2024

Responsibilities: development of fullstack apps, DApps, APIs, SDKs on various projects; analyzing and integrating APIs, libs, and OSS into solutions; system design; DevOps; QA; creating docs, presenting solutions to clients; task decomposition, self-management.

Achievements:

- **Optimized** RPC calls on the frontend and backend to reduce them by **80%** and **saved \$0.1-1 per user per month** (*React, ethers.js; Nest.js*);
- Implemented UI features and design updates of the IQ Market [DApp\(s\)](#) (*React, Next, Tailwind.css*); **proactively identified and resolved UX gaps**, improved responsiveness, consistency with the design, accessibility, DX, and code DRYness;

- **Implemented API** features and endpoints, introduced better practices, lint-staged to reduce commit time (**3 min** → **15 s**) (*Nest.js, Swagger, Husky, Docker*);
- **Established the process of testing** (described *features and scenarios*, created and managed a *test plan*), reporting; **automated smoke tests** with *Cucumber + TypeScript + Cypress + Synpress*;
- **Researched and prototyped** usage of early versions of ChatGPT and API to **accelerate engineering tasks; summarizing news**;
- **Designed, built, and deployed** a fullstack app for game tournaments (*Node.js/TypeScript, Steam API and others, Discord.js, Airtable.js*), and **supported** live beta for 3 events per week;
- Covered **100%** meaningful web app **actions with Google Analytics** events (*React, GA*);
- Created an [article](#) explaining IQ SDK usage; diagrams illustrating smart-contracts' (*Solidity*) relations and usage scenarios; **filled the gaps in partner onboarding** in IQ Market [docs](#); presented our solution to partners; created [docs v2](#) for brevity, clarity, and quicker editing;
- **Single-handedly customized Blockscout** blockchain explorer's **backend** for two chains, **reshaped UI** to fit Figma (*Elixir/Phoenix, Redux, SCSS, PostgresSQL*, non-standard RPC);
- **Implemented** parts of an SDK and a service (API) to **interact with dozens of blockchains** (*Web3/Node.js/TypeScript*) in a uniform manner;
- **Configured** parts of deployment and GitOps of several microservices (*Dockerizing, Helm charts, K8s: ingress, cert-manager; AWS load balancer, IAM, S3, Github Actions, etc.*) **and deployed** on *AWS (EKS, Lambda; Serverless)*; deployed other systems on VPS (*Ubuntu, Nginx, pm2, DNS, ufw, certbot*);
- **Integrated sending emails** (*SMTP, DKIM*, etc.), Telegram **bots** (*Telegraf.js, Gram.js*), **payments** (Stripe), and more **backend** (*Node.js/TypeScript/Express, Python/Flask, MongoDB*) **and frontend** (*React*) **features**.

Tech Lead | [Volta\(bot\)](#) (team size: 5-10)

12.2020-07.2023

- *Responsibilities*: curating architecture, UX, helping business and dev teams understand each other (extracting expectations, proposing solutions), decomposing tasks and writing specs, helping manage development; DevOps, coding integrations for user onboarding, backoffice;
- *Achievements*: **reduced manual operations** by implementing a microservice for our CRM and onboarding flows (*TypeScript/Express, Google Sheets API*) and deploying it (*Nginx, pm2, certbot*), **mitigated risks** by migrating several production bots to our infrastructure (*Docker, Python, PostgresSQL*), **fixed issues in outsourced solutions** (*Python, TypeScript/TypeORM/Nest.js, Gitlab CI*), **wrote specs** for some products to discuss and **reduce scope and cost**.

Tech Lead | [Children Science Classes](#) (team size: 5-25)

12.2020-03.2022

- *Responsibilities*: CusDev, business analysis, project management (development of a custom LMS on *Django*, various integrations), mentoring (architecture, integrations), engineering;
- *Achievements*: **analyzed problems and designed solutions** for academic interventions and feedback loops, accounting and fee collection, personnel compliance, class scheduling, etc; configured/fixed some integrations (*APIs of Google Drive, Zoom, etc.*) **to ensure company's data safety, facilitate marketing/sales** (deduplicating leads, removing delays in analytics, etc), autodetect classes schedule conflicts to **save CEO time**, etc.

Fullstack/DevOps | Startups on pre-MVP stage (team size: 2-5)

10.2020-02.2021

- 11.2020-02.2021 (InPlace) **designed the system**, the DB schema, **implemented** the TS model, parts of UI and API, and **deployed** to a VPS (*TypeScript, Node.js/Express, Vue, PostgresSQL, Ubuntu, Apache, pm2*).
- 5.11-15.12.2020 (SimilarData) **designed the system, implemented** API and UI, **deployed** to a VPS (*TypeScript, Node.js/Express, Vue/Vuetify; Ubuntu, Apache, pm2, certbot*).

- 10-11.2020 (Channel aggregator) **did a technical (solution) analysis.**

Middle → Senior Frontend Engineer | CROC, Inc (teams sizes: 5-25) 02.2019-10.2020

- **Bootstrapped 5 web apps** (*Vue, Vuex, Vuetify, Vuex-Typescript, STOMP over WebSockets + SockJS*) for a big B2B microservice-based project, **implemented an app for release versioning** (tens of microservices and 4 frontend apps, via *Gitlab, Artifactory APIs*). **Managed frontend development** (1-2 colleagues at different stages, 1-2 week sprints with demos). **Organized common code** by moving it into a *private npm repo*.
- **Implemented a dashboard app** with *Vue*, introduced best coding practices and a modern stack to **ensure robustness and extensibility** of the app. Integrated an eSign solution. **Set tasks** for a backend engineer and **mentored an intern**.

Software Engineer → Tech Lead | [Children Science Courses](#) (team size: 5-25) 09.2016-12.2018

- **Developed several web apps** (*HTML, CSS, JS, PHP; communicated with dozens of stakeholders*), **managed the development** of a new site (*WordPress*) and **ensured UI and UX quality**;
- **Lead development** of interactive tasks for courses ([example](#)) by outsource and in-house engineers, *facilitated communication* between engineering and content teams (**up to 7 teams, reduced conflicts, organized** production of **~50 tasks per 1.5 months to a deadline** by reducing quality and changing the process).

Open source since 2010

- **Improved UI** ([example](#)), **UX** ([example](#)) of TiddlyWiki Classic and more [in various ways](#) (*HTML, CSS, JS, PHP, Node.js, Github.Actions*).

Education

CROC IT Managers School	2016-2017
PhD in math and physics (Semenov Institute of Chemical Physics)	2013-2016
Master degree in applied math and physics, graduated with honors (i Moscow Institute of Physics and Technology)	2007-2013