Iakov Litvin

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Product-first fullstack engineer

LinkedIn | GitHub

Skills

languages: English, Russian

- Languages: JavaScript (14 years), TypeScript (5 years); Python, Go, PHP, sh/bat;
- Frontend (since 2010): html/css/js; React, Vue; Zustand, Redux, MobX, Vuex; Next;
- Backend (since ~2020): Node.js, Express, Nest.js; Python, Flask, Django; Go; PHP;
- PostgreSQL, MongoDB, CouchDB;
- HTTP, REST, GraphQL (Apollo client), WebSocket/STOMP; Telegraf.js, SMTP, DKIM; Swagger;
- Web3: TON Contracts design, FunC; DApps, APIs, JS libs like ethers.js, 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; communicating business goals, decomposing tasks for engineers; proposing solutions, explaining limitations to business;
- System design & development, deployment/delivery, writing docs & presenting to clients;
- Project management, mentoring; self-management, fast learning new tech.

Experience and Achievements

FunC and backend engineer | A crypto startup (team size: 10-15)   07.2024-present

Responsibilities: design development of TON Contracts, indexer backend, demo frontent.

Achievements: designed and implemented contracts in *FunC (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 anonimity.

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- 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 implemented 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, accessibility, consistency with the design, 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*, *PostgreSQL*, 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*, *PostgreSQL*), **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*, *PostgreSQL*, *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_, _Vuikit_, _Vuetify_, _Vuex-Typex_, _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 (🄗 Moscow Institute of Physics and Technology)	2007-2013