Nikíta Fýódorov

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Software developer and architect with 8+ years of engineering in complex projects and distributed software development teams. Professional Scrum Master (PSM 1). Strong background in object-oriented analysis and design with Typescript, Java and C#. I participate in open source projects with which I work. Code mentor. Software blogger. Regular attendee of developer meetups and hackathons since 2016. Participated in Architectural kata. To the left of the heart is DDD, and to the right is IDesign.

*Data Processing Agreement at the end of the document.

Hands-on Coding Expertise

In truth, it's easier for me to learn something anew than to use experience.

Currency.com/Capital.com (Exchange/Trading platform)
- Apache Kafka, Web3, Cryptography, Digital Signatures, PostgreSQL, Grafana, Kubernetes, Microservices, Domain-Driven Design (DDD), Hexagon, Blockchain, Kibana, Amazon Web Services (AWS), Jenkins
- JAVA, Spring Framework
- TypeScript, Node.js

vTargete.ru (ads management tool):
- Typescript, Vue 1-2, AgGrid, Lerna, Storybook, Websockets, Workers.
- PHP, Laravel, Equivalent, Clickhouse as a Rewiewer.

Service Desk (admin panel):
- Typescript, Vue 3, Tailwindcss, i18n.
- Design

Reverse engineering (ads management admin panel):

- Javascript, React, Playwright, Chrome DevTools, css.

Graph Visualization Library:
- Typescript, Rollup, Tree.js, d3, web-gl, d3-quad-three.

Gateway:
- NodeJS, Express, Javascript

Rule Engine (lib, docs):
- Typescript, Docusaurus, Gulp

Octopus / Universal Data Analysis Platform (web app on-prem):
- Java, Spring, Neo4j/Cypher, Elastic.
- Typescript, Vue, Knockout, Bower, RequireJS.

Facebook crawler
- React, css
- Typescript, Nightmare.js, Puppeteer

Partner Cabinet (admin panel):
- C#, MSSQL, NHibernate,
- Typescript, Angular 4+, HTML, SCSS.

Custom CRM/BPMS/CMS (back-office):
- DDD, C#, MSSQL, NHibernate,
- ECMAScript 5, JQuery, HTML, SCSS.

Homework, Yougrade, Sciterm, Myknow, 20+ landing pages (seo-optimized websites):
- C#, MSSQL, NHibernate, Memcached
- ECMAScript 3, JQuery, HTML, SCSS.
- Photoshop, Illustrator

Technobus (web/mobile app):
- Java, Android,
- Javascript, JQuery, Gulp, HTML, SCSS.

MyEco.city (website):
- PHP, MySQL, Symfony, Twig,
- Javascript, JQuery, HTML, CSS.

Artist's promo (website):
- Javascript, JQuery, HTML, SCSS.

Kompas Plagins (desktop):
- C#, Windows Forms

It seems to me superfluous to list this every time something that did not have a key value: Git, SVN, Bootstrap, SemanticUI, ElementUI, AntUI, TypeORM, Webpack, Babel, eslint, tslint, prettier, mocha, jest, jira, youtrack, trello, gitlab, confluence, python, Maven, MD, PDF, HTML 5, CSS3, tsc, ttsc, HTTP, HTTPS, TCP, WS, WSS, FTP, UI, UX, ARIA, Accessibility, less, scss, BEM, PostCSS, styled-components, redux, mobx, vuex, Rx.

As an architect, I have been responsible for

Generation and analysis of OpenApi REST interfaces and MQ for transparency of service communication.
- Idempotency of all requests with request inbox pattern. As a result: POST always 200 and edit lock if 500 like in AWS client token and Stripe Idempotency-Key. Versioned or fingerprinted GET like in Google Cloud. Soft DELETE with 200 in short time window.
- Integration events idempotency from "at least once delivery" to "at most once delivery" with transaction outbox pattern.

Security audit.

- to prevent forgery of entries in the database with nonce.
- to prevent forgery of entries from external services with digital signatures with AWS KMS and Vault.
- Hiding sensitive data with hash-based exchange and etc.

I have been responsible at least twice for:

- Making architectural decisions at project initiation (how to split domains, how to add strict borders)
- Providing plant-uml architecture diagrams for the resulting solution. I use event storming in my practice for incremental architecture. All my decisions are based on solutions already used in the company, so I shouldn't care a lot about the cost of infrastructure.

As a front-end architect, I was responsible for:

- compliance with the boundaries of reuse of packages between domains
- reducing the number of open connections to the backend
- first page load time
- offline support
- accessibility and semantic core
- legacy browsers support
- css methodology and its performance characteristics

As a Scrum Master, I have been responsible for

- stand-ups always plan tasks for the day
- retrospectives always end with the creation of tasks in the backlog
- planning always ends with evaluations, where 1 task equals 1 story point equals one acceptance test
- demo is always prepared between code review and task completion.

Code mentoring and consulting

2021 - I was a code mentor to Senior Frontend Developer in one of the largest design studios in Russia. I helped him get an offer for a leading position in just a few days of pair programming.
- Vue, Nuxt, Typescript

2020 - Provision of consulting services for writing a small back-end for a mobile document management application.
- Nest.js, MongoDB, Typescript

Some Recent Projects

2022–.   **Currency.com/Capital.com API**: Exchange with the fastest growth in 2023. My contribution to the success of the company is the integration (transaction processing and security) of popular blockchain projects: XEC, Fantom, VeChain, Ethereum 2.0. And most importantly - architecture of VeChain, Cosmos, Polkadot, Tron and Zilliqa processing. Namely, a microservice domain-oriented fault-tolerant architecture.

2022–.   **Currency.com/Capital.com DLK/UMS**: Bank System with transaction processing, user data management, accounting and etc. My personal contribution to this product is the KYC AML/CFT tools integration: Chainalysis, Cystal and Coinfirm. Without which it would be impossible to make transactions.

2018–2022 **vTargete.ru**: Ads management data grid with time travel features like in figma, batch updates, task scheduler with drag and drop predicate builder and selectable timetable, excel-like cell computing with prosemirror and mathjs formula editor, crdt, differential synchronization and shared worker sync. The closest analogue is the Airtable.

2018–2019. **Graph Visualization Library**: Is a Typescript library for large-scale interactive graph visualizations. Its graphical engine is built for Three.js first, and some hard parts with WebGL. It use SVG for labels with css formating, and html for some provided controls like context menu. It offers all features required to display, explore, and interact with graph data - graph search, collapsing nodes, smart layouts with d3 and custom, and too many algorithms on graphs. The most difficult feature that I did was probably export the graph as pictures weighing more than 3 GB. Although optimizations with SharedArrayBuffer were also not easy. Greggman helped me a lot, and I translated his lessons into Russian. The closest analogue is the Ogma.

2018–2019. **Octopus / Universal Data Analysis Platform**: Open Source Intelligence. Oh, I'm not sure what is legal to write about this. The closest analogue is the Palantir or may be Linkurious. In this company, I was

also involved in the finalization of the Facebook crawler.

2017–2018. **Custom CRM/BPMS/CMS (back-office)**: Domain driven design, LEARN(Agile), 1M+ LOC. I interacted with all employees of the company, different departments. I followed how they worked to make this product comfortable and automate everything possible. And I worked in a team with the same adepts of clean code as me. We, as developers, also cared about security, not just AppSec. Once a thief was identified by ip. The closest analogue does not exist.

2016–2016. **MuseumGate. Bluetooth navigation with beacons**: Java Android and C# WinPhone. More about beacon ble technology. Project presentation in EPAM.

Recent Employments

Capital.com/Currency.com (Warszawa, Poland), 2022–present. Java and NodeJS Developer. Blockchain API Developer. Hands-on programming in Typescript, Solidity and Java. Responsibilities:

- Research, design, develop, and test Blockchain technologies

- Integrate various blockchains solution and currencies into our exchange wallet system

- Implement of security and data protection systems

- Design and implement low-latency, high-available, and performant services

- Write reusable, testable, and efficient code.

- Make 150+ shallow Smart Contract security audits and generate reports on it.

- Write, audit and deploy solidify smart contacts on different networks.

VTargete (Moscow, Russia), 2019–2022. Lead Frontend Engineer: Hired and managed a team of 4 junior specialists. Performed requirements analysis, design, implementation, testing, and maintenance. Hands-on

programming in Typescript.

BaltInfoCom (SPB, Russia), 2018–2019. Software Engineer: Was engaged in the automation of development processes. Optimization of graph visualization and dom rendering. Developed a platform for crime detection and analysis. Hands-on programming in Typescript and Java.

I **mentored a 75 year old c++ senior developer** and one junior at this job.

I joined a team of 21 people who had never worked in Scrum teams. And left 4 SCRUM teams with stand-ups, retrospectives, plannings, product owner, and single sprint goal. This was probably my biggest Scrum implementation success. We began to deliver the product twice as often.

Homework (SPB, Russia), 2017 – 2018. Software Engineer: Developed public, private sites and back office. I was engaged in the automation of employee bonuses, payments, pdf reports and receipts, html typesetting of letters, SEO optimization, A / B testing, optimization of sql queries. Hands-on programming in Javascript, Typescript and C#.

Freelance (SPB, Russia), 2015 – 2017. I wrote to order bachelor's dissertations in programming, and other minor works. This made me quite a serious expert in the quality of code, because the code for students who do not even know the language should be perfect. I also made websites to order, about 10 or 15 all the time. Hands-on programming in all languages you can imagine, but sites with PHP of course.

Physics Tutor (SPB, Russia), 2013 – 2017. Preparation for exams in physics, mechanics, electrical engineering. I had three regular students. One of which I continued to teach after his graduation from school.

Community

In 2016, I was a member of the MSP community as a Microsoft Student Partner, we conduct various kind of events with Microsoft:
- Microsoft Student Day

- Microsoft Imagine Cup

Also, as a volunteer, I developed an **application for publishing speeches on social networks** for the largest conference organizer in Russia (jug.ru):
- HolyJS,
- JPoint,
- Heisenbug.

Reading

I am a fan of Fowler, Richter, Meyer and Bruce Eckel. Also books written by funnier guys like fiInteractive Data Visualization for the Webfi, Scott Murray, and other contemporary publications.

Education

Master's Degree in Computer and Information Systems Security, 2015–2021:
Saint Petersburg State Electrotechnical University "LETI", Russia
I took a break before writing my master's thesis, I want to do something worthwhile. However, the war interrupted my plans.

Hacktory Web Security Professional, 2021:
Hacktory, Russia
AppSec and penetration testing with PHP, Python, JAVA, Node, MongoDB, MySQL, Memcached

Microcontroller programming STM32, 2017:
STC Metrotek, Russia
Work with USB, GPIO, I2C interfaces. Interrupts and timers.

Emergn Java Internship (junior), 2016:
Emergn, Global
- There was a Scrum process, with team lead and separation everywhere.
- The domain expert works as a customer.
- Due to my role, I smoothly moved from java to full stack.
- Task planning in JIRA.
- There was a quick commit review and a morning retrospective after each sprint.

Development according to the plan is made up of: Design, back-end and then front-end and then applications for Android, IOS.

ASP.NET Web Development, 2016:
Microsoft Student Partners, Russia
Full Stack Development, ASP.NET, AnguarJS

Of course I love self-development, here is a list of open courses from universities and companies that I have completed:
University of Colorado - Secure Software Design: Software Design as an Element of the Software Development Lifecycle; Bioinformatics Institute – Neural Networks, Python Programming, Analyzing data in R, Introduction to databases, R Programming, Basics of statistics; Samsung Research Russia – Neural Networks and Computer Vision; IKBFU I. Kant – Theory of argumentation, Philosophy, Rhetoric; Internet Marketing; SKB Kontur – Scientific thinking; Computer Science Center – Java; Mail.Ru Group – Advanced C/C++ Programming.

Customer Reviews

Many thanks to Nikita for useful advice on statistical data processing and practical help!

Thank you so much for a job well done!

Excellent performer! All work was done at height and ahead of schedule.

Customer Reviews for my Product

I started using it 2 months ago and almost immediately began to recommend it to my friends. Sooo cool service, TOP automation, now 3 hours of work turn into 20 minutes! fire

Reduces the optimization time by 10 times exactly, in 3 clicks. Especially valuable is real-time price tracking, if earlier it was done manually with a calculator and a bunch of calculations, now you can see everything in a minute.

I used to spend 4-5 hours to track the cost of registration and their count, now 10-12 minutes due to linking the product to the account.

You can say about the service in 2 words like this: YOU CAN DO EVERYTHING ALONE! You do not need additional assistants and they will not have to pay, since the service replaces them, but here I want to note that we are not talking about millions in income, itfis not realistic without a team.

The one who created this service is just BRILLIANT.

P.S. I have all proofs.

Data Processing Agreement

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)