

Nikita Kliushnikov

Senior / Lead Software Engineer

I am a Software Engineer with a passion for creating highly efficient products and delivering exceptional user experiences. I enjoy developing complex and visually appealing user interfaces that strike a balance between business goals and ideal UX. I am driven by seeing the impact of my work and constantly strive to improve products by analyzing metrics and providing optimal solutions. With expertise in both frontend and backend development, as well as technical and team leadership, I bring a strong product mindset to all my work.



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Educational Qualifications:

Belarusian State University of Informatics and Radioelectronics,
Bachelor's Degree in Mathematics and Computer Science (2010-2015), Graduated with Honors

English level: B2+ / C1

Summary:

- 10+ years of commercial development experience
- Deep knowledge and experience in JavaScript development (frontend and backend), experience in .NET development (web and desktop)
- Experience in developing highly responsive, user-friendly, and accessible (a11y) mobile-first web applications following industry-level standards
- Expertise in the development of enterprise, multi-tier, and multi-layer applications with high-performance requirements
- Strong working knowledge of object-oriented programming and design
- Experience working under Agile methodologies

- An ability to learn continuously and adapt to changing environments
- Leadership, mentorship, and training experience
- Public speaking experience
- Working experience in the following business domains: GeoTech (Location Data / Mapping), Fintech, Adtech, and Hiring / Job Search

Technical Skills:

General programming: OOP, Design Patterns, Design Principles

Programming languages and platforms: JavaScript (ES5 - ESNext), C#, .Net Platform, Bash

Frontend: React, Redux, Angular, AngularJS, BackboneJS+Marionette, KnockoutJS, Storybook, jQuery, MapboxGLJS, Lodash, VanillaJS, HTML5, CSS3, LESS, SASS, PostCSS, SPA, GraphQL (Apollo), Gulp, Webpack

Backend: NodeJS, ExpressJS, NestJS, KoaJS, Mongoose, TypeORM, ASP.Net MVC, Websocket, SignalR, Entity Framework, ADO.Net, WCF, REST

Desktop: WPF, Prism, Unity IoC, Electron

DBs: MSSQL, PostgreSQL, MongoDB, Redis

Testing frameworks and tools: Mocha+Sinon+Chai, Jest, Jasmine, Enzyme, SpecFlow, Cypress, React Testing Library, NUnit

Version Control Systems: Git, TFS

Application Servers: Nginx, IIS

Cloud: AWS, Docker

CI/CD: TravisCI

OS: Microsoft Windows Family, Linux, Mac OS

Application Development Systems: MS Visual Studio, JetBrains Webstorm, VSCode

Management and other tools: Jira, Confluence, Trello, Notion, Figma

Monitoring and alerting: Sentry, PagerDuty

Work Experience:

- **Mapbox, Senior Software Engineer (Full-Stack)**

September 2019 - Present

During my time at Mapbox, I have contributed to the development and maintenance of multiple internal tools, as well as the public product Mapbox Contribute. I also worked on the development and support of the Mapbox custom data and feedback processing pipelines.

Initially, I joined Mapbox as a Senior Software Engineer, focusing on frontend development. However, my experience as a Full-Stack Engineer allowed me to quickly take on responsibilities

across the entire development stack, with a continued focus on front-end development. When the team decided to develop a new publicly available product, I became a key developer on the project and played a leading role as a feature owner for many of its features. This included close collaboration with product owners and stakeholders, prototyping and implementing key features, and improving customer satisfaction.

In addition to my project work, I contributed to the development of our product's architecture, authored architectural documentation (RFC, SDP), and documented the implemented solutions.

Most of the projects I worked on used React on the front-end, Node.js (Express/Nest.js) on the back-end, and PySpark/JS(TS) for data processing pipelines, all based on the AWS stack.

As part of the team's on-call rotation, I supported frontend, backend, and data processing pipelines. I also had the opportunity to mentor other team members as part of various team initiatives.

Overall, my time at Mapbox has been a great learning experience, where I contributed to impactful projects and expanded my skillset as a Full-Stack Engineer.

Projects:

- **Mapbox Contribute**

Role: Senior / Lead Software Engineer

Tech stack: ReactJS, Redux, Lodash, VanillaJS, MapboxGLJS, Jest, React Testing Library, Cypress, Storybook, SASS, TravisCI, Node.JS, Express, Nest.js, Postgres SQL, TypeORM, Docker, AWS services, PagerDuty, Sentry, AirFlow

Project Description:

Mapbox Contribute is a system designed to collect and process user feedback from Mapbox maps via the "Improve this map" link, regardless of the platform (web or mobile) used to access the maps. It allows users to suggest various types of map changes, such as the addition of addresses, POIs, roads, speed limits, incidents, and clearances, editing pois, and addresses via search results or interactive maps, and the removal of existing POIs. The web application is optimized for mobile usage and is fully responsive. It also supports closed-loop functionality to notify users of the status of their feedback

Responsibilities:

- Participated in front-end, back-end, and data processing pipeline development

- Provided technical leadership for front-end development
- Designed and architected the front-end technical solution
- Optimized performance
- Developed and executed tests on multiple layers, including unit testing, component testing, visual component testing, integration testing on UI, unit and integrational testing on the back end and data processing pipeline
- Created architectural (RFC) and software development plan documentation and documented implemented solutions
- Communicated with product owners, designers, and stakeholders to gather requirements and provide estimations
- Owned the majority of UI features and performed a technical analysis of features
- Collaborated with cross-functional teams
- Prototyped new features
- Conducted code reviews and mentored team members

- **Internal Task Tracking Tool for GeoJSON-based feedback**

Role: Senior Software Engineer

Tech stack: ReactJS, Redux, Lodash, VanillaJS, MapboxGLJS, Jest, React Testing Library, TravisCI, Node.JS, Express, Postgres SQL, Docker, AWS services, , PagerDuty, Sentry, AirFlow

Project Description:

The internal task tracking tool is a service to track, review and validate GeoJSON-based feedback. It is used by internal teams to review end-users' feedback, keep track of work progress, and validate the quality of the review, collecting review statistics. It is the main tool in the feedback processing workflow.

The tool supports huge amounts of various feedback with lots of GeoJSON features for a single feedback item. It is widely used for navigation, search, and Mapbox Contribute feedback. It was reworked to be modular and easily extensible, allowing new projects to be easily created by end users themselves and fulfill projects with tasks using CLI. The tool also features an internal plugin system that can call other tools, such as a navigation session replay tool to simulate what the driver sees while using an app built upon the company's SDK, internal map data editor, and search playgrounds.

Additionally, the tool comes with a bunch of data pipelines for particular feedback types and general feedback data pipelines to keep track of task statuses and provide updates to other teams to either update the data or support close-loop functionality.

Responsibilities:

- Participated in front-end, back-end, and data processing pipeline development

- Performed deep refactoring and decoupling of the initial tool to make it modular and implemented a plugin system and key features of the tool
 - Involved in the architecture design of the tool
 - Optimized performance
 - Developed and executed tests on multiple layers, including unit testing, component testing on the UI, unit and integrational testing on the backend, and data processing pipelines
 - Created architectural (RFC) and software development plan documentation and documented implemented solutions
 - Collaborated with cross-functional teams
 - Conducted code reviews
- **Adform, Senior / Lead Software Engineer (Front-End)**

January 2018 - August 2019

During my time at Adform, I contributed to the development of two fully new company projects and supported one existing project. On the second project, I took on the responsibility of leading the frontend team consisting of three developers, including myself. My main development activities included contributing to the company-wide frontend application development guidelines and local components library.

In addition to my development work, I participated in Adform's local mentoring program, mentoring individuals in both JS frontend and backend development. I also participated in front-end candidate interviews to assist with the hiring process.

Projects:

- **Lines Multiedit, Tag Management**

Role: Senior / Lead Software Engineer

Tech stack: ReactJS, Redux, Recompose, Lodash, VanillaJS, Mocha+Sinon+Chai, Enzyme, Apollo GraphQL, CSS Modules, Webpack, DroneCI

Project Description:

The project consists of two main components - Lines Multiedit and Tag Management.

Lines Multiedit is a replacement for the old media campaign planning tool that provides a better user experience for managing large amounts of advertising campaign lines easily and efficiently.

Tag Management is a powerful tool designed to simplify the process of assigning, updating, and maintaining tags - JavaScript code snippets that send data to third-party

systems.

Both projects are based on the same design principles and are architecturally split into a series of loosely coupled small modules, which can be reused in the parent highly modular system.

Responsibilities:

- Frontend development
 - Frontend technical design and architecture
 - Frontend technical leadership
 - Leading a small Frontend team of 2 people (1 Mid, 1 Sr, excluding me)
 - Contribution to the local UI Kit
 - Performance optimization
 - Refactoring
 - Unit testing, snapshot testing, visual component testing
 - Cross-team communication
 - Communication with Product Managers and Designers, features technical analysis, estimation
 - Code reviews, mentoring
- **iTechArt Group, Senior Software Engineer (Full-Stack)**

June 2013 – December 2017

During my time at iTechArt, I worked on several projects using .Net/JS technology stacks. Additionally, I was involved in a variety of internal activities, including:

- Mentoring colleagues
- Teaching and mentoring students in a local lab, primarily focused on JS
- Public speaking at the company's local development conference. "Cross-Platform Desktop Apps Development" (<https://youtu.be/aDyr4i2zg5E>)

My time at iTechArt was my first commercial experience workplace, and it provided me with versatile experience that has helped me throughout my career and develop my teaching and public speaking abilities.

Projects:

- **CityIndex Webtrader**

Role: Senior / Lead Software Engineer

Tech stack: Angular (2, 4+), RxJS, NgRx, WebSocket, TypeScript, SASS, HTML5, CSS3, Webpack, Jasmine, Karma, PhantomJS, Git (GitHub), Jira, Confluence

Project Description: Webtrader is a web-based platform for online trading that includes customizable workspaces, integrated trading tools, market commentary, and analytics. The solution has advanced charting features, 70+ technical indicators, and 50+ drawing tools. One of the sub-projects allows for seamless account management, funding, and withdrawals for the integration of web, mobile, and desktop applications.

Responsibilities:

- Client-side application development
- Internal dashboard library implementation
- Application architecture design in collaboration with other lead colleagues
- Communication with the API team
- Communication with a customer, estimation
- Performance optimization
- Refactoring
- Unit testing
- Code reviews, mentoring

- **10by10**

Role: Senior Software Engineer

Tech stack: React, Redux, VanillaJS, NodeJS, MongoDB, Mongoose, Jest, HTML5, CSS3, Webpack, Git (GitHub), Trello, AWS

Project Description: The main goal of a project is to help companies to find candidates that meet their requirements without the need to spend time and resources on many interviews. On the other hand, the project helps candidates pass an interview single time and apply for many different positions, that match their skillset. The application is designed as a React SPA, backed by NodeJS + MongoDB services, running on AWS.

Responsibilities:

- Frontend development
- Technical design
- Backend development
- Build process setup and optimization
- Refactoring
- Unit testing
- Communication with the customer, gathering requirements, estimation
- Code reviews

- **GAIN Capital**

Tech stack: .NET, C#, MS SQL Server, WPF, WCF, ASP.NET Web Api, SignalR, Redis,

StreamBase, Win Services, SpecFlow, Visual Studio, TFS, Git (GitHub), JIRA, Confluence, TeamCity

Role: Senior Software Engineer / Software Architect

Project Description: A bunch of scalable, maintainable, modular WPF desktop applications for traders on exchange backed by background services for monitoring trading information with a rate of updates up to 100k per second. Client-side applications provide traders with the ability to set up trading engines, control and monitor live and historical values using real-time charts, manage their trading and predict exchange behavior.

Applications are designed to support huge amounts of data and be customizable for particular end-user needs. The server-side application uses the trading engine and Web Services as data providers, the Redis is used for a high-loaded data cache for multiple clients.

Responsibilities:

- Technical design and architecture
 - Backend development and Windows desktop app development
 - Development of the most complex features in all application layers, such as Redis cache and mediator services
 - Performance optimization
 - Refactoring
 - Communication with the customer's staff on technical matters
 - Gathering requirements, estimation
 - Documenting
 - Unit and integration testing using SpecFlow
 - Code-reviews, mentoring
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- **GovernmentJobs**

Role: Software Engineer

Tech stack: Knockout.js, jQuery, VanillaJS, Bootstrap, LESS, ASP.NET MVC 4, ASP.NET WebAPI, Entity Framework, WCF, IIS, MongoDB, MSSQL Server, Apache Solr, Git (Atlassian Stash), Atlassian Bamboo, Jira, Selenium

Project Description: The main purpose of the project is to help people to search for jobs in the public sector and apply for them online. Registered users have the option to fill out the required information, import the resume using the file upload or LinkedIn account, answer questions requested by the employer, and submit their applications online. Later they can track their statuses and schedule an exam. The project is made to be highly responsive, easy to use, and optimized for mobile usage by implementing it as a mobile-first

responsive site. As the project domain is in the public sector it was implemented tightly following availability guidelines.

Responsibilities:

- Frontend and backend development
- Database Design
- Adding the dynamic customization mechanism for particular agencies
- Payment system setup
- Cross-browser support for markup and styling
- Implementation and maintenance of high availability level of the site markup
- Unit, integration, and e2e (using SouceLabs Selenium) tests implementation
- Communication with the customer and gathering requirements, estimation
- Code-reviews