Alex Sarychev

Lead / Senior Full-Stack Developer

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Core Qualifications

I have been working with complex projects almost from the beginning of my career. I'm passionate about technologies and trying to keep in touch with most of the popular solutions for web-development. To date I have more than 14 years of experience in web and mobile fields and have used a variety of different technologies. I'm skilled in multiple programming languages such as PHP, Javascript, Java, C#, Swift. The languages from this list are languages that I'm able to freely develop with.

Education

Moscow State University of Design and Technology:
Bachelor Degree in Development of CAD Systems, 2008-2012

Skills

PHP: 10+ years
Javascript: 14 years
NodeJS: 8+ years
Java/C#: 5+ years

Most of my jobs required me to participate in both frontend and backend.
Frontend: approximately 7 years
Backend: approximately 10 years

Tools:
Memcached, Redis, RabbitMQ, Kafka, NextJS,NestJS, React, Jquery, Angular, MySQL, MSSQL, PostgreSQL, MongoDB, CouchDB, AWS, VBox, GraphQL
Approaches:
Microservices
Service Oriented Architecture
CD/CI
Serverless

Employment History

Tech Lead at Skyground
Nov 2023 - To Date
Cyprus, https://www.skyground.group/
Stack: Typescript/Javascript + C# + C++ + RabbitMQ + Postgres + MySQL+ Protobuf + MT4
B2B Contractor

Led a team of 10 developers in designing and developing a whitelabeling platform for Forex brokerage, overseeing more than 30 services deployed on AWS ECS.

Duties consist of hiring new developers, planning for the department, creating the development workflow and pipelines, navigating developers on their tasks.Participated in product and UX design decisions since i had some relevant experience.

Accomplishments:
1. Have written Documentation and solidified Jira workflows
2. Integrated tests (both browser and integrational) and CI pipelines.
2. Developed a new framework for frontend and backend projects. Input / Output fully typechecked. Used OpenAPI and Zod to achieve the same effect as tRPC but more flexible and tailored to our needs.
3. Taken DevOps responsibilities, constantly was working on improving CD pipelines
4. Developed an ETL service that had to process more than 10 million updates daily. RMQ and some functionality to correct problems remotely such as reuploading some data.
5. Developed a cache system to show stats on open trades such as open PNL that processed 10 million ticks and trades daily. The whole forex server (25k users and 7k open trades) processed within 5 seconds using Typescript only.

One of the whitelabels: https://tauromarkets.com/

Senior Developer at Unleashed Capital
Sep 2021 - Sep 2022
Germany, https://unleashedcapital.com/
Stack: Typescript (NestJS) + Kafka + RabbitMQ + Postgres + Protobuf
B2B Contractor

Participating in the development of HAVE Bank with Unleashed Capital.We used microservice architecture along with event sourcing and CQRS patterns. API have been developed using GraphQL. For communication we used both Kafka and RabbitMQ. The rough number of microservices managed by the department: 15.

One of the biggest problems I solved was unification of validation and transformation of data between different sources: Postgres => Microservice Level => Protobuf => GraphQL. At each point the data has to be properly validated and transformed to expected format which is usually significantly different for each level.

Freelancer
Feb 2019 - Sep 2021
Moscow, https://www.upwork.com/freelancers/~015e4e0f5478ebfb7d
Commonly Used Stacks:
PHP (Yii, Symphony, Laravel) + Javascript (React, Angular or Jquery).
MERN

Participated in various projects, such as payment system, booking website and visual configurator for house interior/exterior.

My account has 2 Top Rated badges (normal and high budget projects), Job Success Score: 100%.

Notable SOA / Microservice Projects:

- Led the development of Amazon Analytics Tool. We used distributed architecture in order to process the data of amazon sellers via Amazon API and scraping using chrome headless. Services were communicating via RabbitMQ.
  https://www.ecomengine.com/feedbackfive

- Development of a microservice that processes user requests for acquiring. Gathering information from the user, checking sensitive information, and putting the request for acquiring on the bus. Event based communication.
  https://www.finaxar.com/

Chief Technology Officer at Home-Studio (Individual Entrepreneur)
Nov 2015 - Feb 2019
Moscow, https://homestudio.alex-sarychev.com/

In November 2015 I started my own digital agency. There were 7 employees under my leadership: 2 programmers, project manager, HTML developer, designer and 2 salesmen. My responsibilities were to support and develop internal tools for the company, defining the course of the company, finding partners and the development of the projects (usually I helped with the tricky tasks and architecture).

Commonly used Stacks:
PHP (Yii) + Javascript (React, Angular or Jquery).
MERN
MEAN

Team Lead at Analytic Center LLC
Aug 2014 - Oct 2015, Voronezh, https://analit.net
Stack: .NET (C#)

Analytic Center is a collaboration of the internet provider Inforum (http://ivrn.net) and AnalitFarmacia (http://analit.net) which is a digital marketplace for drugstores and pharmaceutical companies around Russia. The IT department had been relocated to Moscow due to difficulties in recruitment and it served the needs of both Inforum and AnalitFarmacia.

I was in charge of variety of things: made trips to Voronezh in order to set the course of development, searched for and hired the employees for the department, managed inventory and salaries, assessed productivity of the employees, tracked the progress for tasks, managed bonuses and fines for the developers and administered the office. As a developer I participated in usability testing, design, outsourcing, planning and coding.

Web-Platform Architect at Sitronics JSC
Feb 2014 - July 2014, Moscow, http://sitronics.com/en/
Stack: Javascript, PHP as thin backend with websocket connection, Redis

Designed and developed the frontend part of the Allyst platform. The purpose of the platform is creation of Enterprise Service Bus (ESB) schemes.The frontend was a visual editor which gave an ability to create system integration for the company within minutes.

The visual editor was a Javascript application utilizing SVG in order to display graphic elements. Serverside part for the frontend consisted of PostgreSQL, MongoDB, Redis and thin PHP shiv for read / write operations and statistics.

Project Manager at Alpha Bank JSC
Aug 2013 - Feb 2014, Moscow, https://alfabank.com
Stack: PHP (Symfony)

My primary duty was to manage projects in the foreign exchange department of Alfa Bank. Small projects had been coded by me alone while more complex projects had been outsourced to various contractors or developed in-house.

One of the projects that is worth mentioning is the fat client password management system which we used to share passwords in the department. The data was encrypted and available

only for the end users of the system, while the private key is never held on the server therefore it's not possible to decrypt the data even if the intruder has the database access.

Lead Frontend Developer at X-Soft LLC
Aug 2012 - Apr 2013, Moscow, https://promo.orbios.com
Stack: PHP + Javascript (No libraries)

I participated in development of the core for a cloud operating system. From scratch I was able to think through the architecture of the frontend of the web-service. One of the main requirements for the project was to avoid any extra frameworks and libraries due to security reasons.

My duties were to manage 3 Javascript developers, assess and hire candidates for Javascript positions and communicate with other departments, such as backend, designers and UX. In order to manage the project I proposed to use Git along with the assemla.com project management system.

PHP Programmer at Webrex LLC
Feb 2012 - Aug 2012, Moscow
Stack: PHP (Kohana), Javascript+JQuery

Development of a coupon website. It was a 6 month contract. My duties were to find proper tools and solutions for the development (version control system, frameworks, libraries), designing the project, and development.

One of my achievements on that job is automatization of the coupon creation process.

Junior Programmer at PAIVE Media Group LLC
Sep 2011 - Feb 2012, Moscow, http://www.paive.com
Stack: PHP + Javascript (Jquery)

My duties consisted of writing new modules for the CMS used in the company, fixing bugs, and development of small projects. Aside from that there were some routine tasks like converting data from one format to another and bulk data upload for e-commerce shops.

The most noticeable project is the system to the Diageo bartender competition, which had been running as an Ipad application (It worked as a wrapper for the web page) and controlled via AJAX requests in real time in the control panel.