


Kirill Shumilov

Full Stack JavaScript Developer

JS, ES6+, **React**, **Redux**, **Electron**, ReasonML,
Functional Programming, C++, **NodeJS**,
Mocha/Jest, and much more

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JavaScript developer with 7+ years of experience.

I prefer test-driven development, and I'm in love with functional programming. I passionate to focus on business logic, complex tasks, and the architecture of the program.

In addition, I have some skills in C++11 for embedded platforms and some expertise in UI/UX design. Also, I familiar with other languages, such as Python, PHP, Go. And have some experience with SQL, MongoDB, bash, and Unix system.

Work History

June 2016 to
March 2021

Senior JavaScript Engineer

[XOD.io](https://xod.io), Moscow

Open-source

<https://github.com/xodio/xod>

The visual programming language for microcontrollers, which transpiles in C++11, and a cross-platform IDE. It all started with the idea of simplifying the learning curve, but then it grows up to the full-fledged language with polymorphism, custom types, error handling, debug tools, community-driven third-party libraries and so on.

Our team are inspired with functional reactive programming, so we bring some principles of it to the XOD language, taking into account the limitations of microcontrollers: little RAM and little program memory.

My role in this project:

- Developed the visual programming language and the cross-platform IDE from scratch, as a first developer on the project: made a design and architecture decisions, choose a technology stack, write tests, implement features.
- Involved in team creating and interview process.
- Solved a lot of tasks related to the interprocess communication (IPC).
- Created interactive debug tools and messaging protocol.
- Implemented a simulation mechanism, that makes possible to run the exact the same code, as will be uploaded to the microcontroller, right on Users` PC.
- Recreated some of Arduino (C++) libraries to optimize them, make cross-platform and bring polymorphism in it.
- Solved a lot of other interesting challenges. Check out the GitHub issues to find out all things, that I had done.

Stack: React, Redux, Ramda, Electron, Serialport, ReasonML, Mocha, Jest, Puppeteer, Spectron, Lerna, Babel, Webpack, Handlebars, Emscripten (WASM), C++11.

By the way, the XOD language was positively evaluated by the community around the world. One of the most striking examples, biologists from Cambridge began to use XOD in their master classes and developments, and even held a competition and wrote a book. Read more on their website: <https://www.biomaker.org/>

February 2016 to
June 2016

Front End Developer

Prossimo.us Via Upwork

The product we develop was an intranet online window designer for sales managers. Using it managers recreates drawings of windows given by architects, choose profiles, mullions, how window opens and so on, and then application calculates a quote for suppliers and cost estimates for the client.

- Protected the development process of the drawing module by integrating regression tests using the resemble package,
- Accelerated the calculation of the new big order by adding a feature to create and calculate quotes and costs for circular windows.

Stack: Backbone+Marionette, Underscore, KonvaJS, Mocha+Chai, Resemble.

November 2014 to
February 2016

Lead of UX Team

oridis.ru, Moscow

- Led the front end team working closely with project managers and developers.
- Advised on the development of the client side of the online kitchen designer.
- Saved the client's money and time by creating (as a developer) a half-automatic admin panel for the kitchen designer, which parses the SVG pictures of kitchen modules, which already was on client's hands.
- Created a few web-sites from scratch as a designer and front end developer in one person: lesstroy.net, stroicev.ru, optimele.ru

February 2012 to
November 2014

UI/UX Designer

oridis.ru, Moscow

- Designed a few websites for companies from different industries: pharmaceuticals, e-commerce, frequency converters, septic tanks, aggregator of country-side builders, commercial realty aggregator, paintball club and so on.
- Improved user involvement on lesstroy.net by 40% by analyzing user behavior using Yandex.Webvisor and reorganizing the search form and search results page.
- Increased the conversion rate of office furniture online shop by 12% by recreating a catalog and adding a search form.

Education

September 2007 to
July 2012

Master of Science in Financial Management

Moscow Institute of Management, Moscow

Additional Information

Languages

Russian — Native
English — B2+

Hobbies

Cinematography & Photography,
Music, Travels, Hiking
Making pet-projects

Mentoring

I was a mentor and teacher for some of my buddies who eventually mastered some programming languages and now work in IT.