

Makarov Mikhail

Contacts

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About

Frontend developer with 3+ years of commercial experience, working in teams ranging from 2 to 20 members, both remotely and on-site. Built from scratch SPA and SSR web applications by gathering product owner requirements, developing REST API schemas, and integrating unit testing.

Professional Experience

JSC FLAT

September 2022 – 2025

Frontend Developer

- Developed a SPA for the admin panel of the Tretyakov Art Gallery
- Participated in rewriting **3** legacy B2B projects with **10k lines** of code using
- Set up unit testing by Jest and achieved **98% code coverage** of UI libraries, significantly reducing bugs.
- Mentored **2 junior developers** in front end technologies, improving team skills.
- Engineered a new RESTful API scheme and carried out migration, resulting in faster 1.5 times faster development for both frontend and backend teams
- Implemented seamless locale switching for **3 languages**
- Set up a CI/CD pipeline in collaboration with QA team, reducing deployment time by **50%**
- Resolved multiple critical and minor bugs, reducing application downtime by **20%**
- Enhanced user forms with custom validations, increasing form submission rates

Technologies: TypeScript, JavaScript, HTML, CSS, SCSS, Vue.js, Vuex, pinia, React.js, Redux, Next.js, Jenkins, git

JSC MERI

September 2016 – till now

Senior Researcher

- Provided technical expertise on AI accelerators, photonic tensor processors, and photonic ADCs.
- Successfully completed a project on photonic non-volatile memory and a preliminary project on hardware for accelerating neural networks.
- Invented an integrated loop reflector that improves power consumption of a photonic memory cell.
- Published over **10 scientific papers** and presented them on conferences.

Education

Moscow Institute of Physics and Technology

Master of Science, Applied Mathematics and Physics

01.08.2016

Bachelor's degree, Applied Mathematics and Physics

01.08.2014

Skills

Hard Skills: JavaScript, HTML, CSS, SCSS, TypeScript, React.js, Vue.js, Next.js, Git, RESTful APIs, debugging, responsive design, unit testing, Cypress, Jest, Redux, vuex, pinia, Node.js, Express.js, Vue-router, Bootstrap, Material UI, element-plus.js, SPA, PWA, SSR, and other front-end libraries.

Communication skills: English - B2, Russian - Native.

Recent publications:

- Energy-Efficient Photonic Memory Cell with Spatially Separated Recording/Erasing and Readout Channels – 2022 Physica status solidi (b) / Published by Wiley-VCH Verlag · Jun 1, 2022
- Numerical simulation of effective light transmission through a photonic memory cell – 2021 Journal of Physics: Conference Series / Published under licence by IOP Publishing Ltd · Dec 1, 2021