

Makarov Mikhail

Contacts

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About

Professional frontend developer with 5 years of experience and a proven track record of creating smooth and user-friendly webapps, coupled with a passion for clean and efficient coding. I am excited about the opportunity to contribute my skills and expertise to your team

Professional Experience

JSC FLAT

September 2022 – till now

Frontend Engineer

- Developed a SPA which had 100 RPS for the admin panel of the Tretyakov Art Gallery using Vue.js.
- Participated in rewriting 3 legacy B2B projects with 10k lines of code using SSR, React.js and Next.js.
- Set up unit testing by Jest in all projects 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 API scheme and carried out migration, resulting in faster development for both frontend and backend teams.
- Deployed CI/CD in Jenkins in close collaboration with QA team and backend developer.
- Ensured stable operation existing frontend applications by conducting bug fixes and security updates.

IMT RAS

September 2016 – August 2022

Senior Researcher

- Provided technical expertise on neural network 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 significantly improves power consumption of a photonic memory cell.
- Carried out theoretical and numerical simulations of 20+ integrated optics devices using COMSOL Multiphysics.
- Published over 10 scientific papers and presented them on conferences.

Education

Moscow Institute of Physics and Technology

Moscow, Russia

Master of Science, Applied Mathematics and Physics

01.08.2016

Bachelor's degree, Applied Mathematics and Physics

01.08.2014

Skills

Hard Skills: JavaScript, TypeScript, Vue.js, React.js, next.js, vuex, pinia, redux, HTML, CSS, SASS, SCSS, Node.js, Express.js, vue-router, Bootstrap, Material UI, element-plus.js, SPA, PWA, SSR, and other front-end libraries.

Tools: Vite, webpack, npm, git, e2e testing, unit testing, Cypress, Jest, Jenkins.

Soft Skills: problem-solving, critical thinking, time management, collaboration, patience, empathy.

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