**Contacts**

**Email address**: mikhail.makarov@phystech.edu | **Phone**: +41767454744 | **LinkedIn**: [linkedin.com/in/makmik](https://www.linkedin.com/in/makmik)

**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 – till now

**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

Design, Ux Testing Hiring React Strategy Software engineering Talent acquisition Front-end External partners Html Fashion Counseling Acquisition Transportation Coaching Accounting Compliance Maintenance Operations Typescript Engineering Architecture Css Technical Javascript Agile B2b Training