Maksim Tropnikov

Frontend Developer

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About me

- Frontend developer with scientific background (switched careers from Physics). My previous job as a researcher involved programming in C++, MatLab and LabVIEW, and developing several tools for using in the lab.
- Currently deepen my knowledge in React ecosystem and MERN stack, study algorithms. You can view my code samples, study projects and test assignments on my github.
- Have experience of public speaking at international conferences. Fond of photography, love dogs.

Skills

- HTML, CSS, SASS/SCSS, LESS, Ant Design
- JavaScript, React, Redux, Redux Toolkit, TypeScript
- Node.js, Express, MongoDB, Webpack, Gulp, Nginx, Docker
- Git, GitHub Flow, Agile

Experience

Mar 2022 – Present
Frontend Developer, *BCS*, remote
Working on fintech project Fins.money – an investment and trading platform for individuals. Developing new features of React with Redux -based SPA, clearing technical debt and reducing backlog:
- Cleared most of the bug backlog.
- Adapted design of one of the products for partners.
- Implemented new features: card payment, password change and restore, filtering, etc.

Stack: HTML, CSS (LESS), JavaScript, React, Redux (dvajs), Ant Design, Agile.

Dec 2021 – Mar 2022
Junior Frontend Developer, *R-Style Softlab*, remote
Development of hybrid mobile applications using Ionic and Apache Cordova frameworks. Migrating old codebase from AngularJS to Stencil, creating design components with Storybook.

Stack: TypeScript, Angular, Ionic, Cordova, GitHub Flow, Stencil, Storybook, Jest.

Mar 2021 – Jul 2022
Frontend Developer (apprenticeship), *Yandex.Practicum*, online
Course on frontend development with MERN **stack**: HTML, CSS, JavaScript, Git, React, React Router, Node.js (Express), MongoDB, BEM, OOP, Webpack. During my study at Yandex.Practicum on Web Developer course I implemented several projects, which all can be seen at my graduation project page:
- **Diploma project.** Portfolio site with registration and authorization. Frontend written in React, Node.js with Express are used on the backend. Adaptive layout, registration and authorization (main content is hidden with protected routes) are used for search, view and saving movies. Movies catalog is requested via Beatfilms API, saved movies stored in a database on a Yandex.Cloud server (now moved to DO though).
  Stack: HTML, CSS, JavaScript, React (React Router, Context), Node.js, Express, MongoDB, Nginx, pm2.
  Links: Diploma app, frontend on github, backend.

2013 – 2021
Junior Researcher at Quantum sensors lab., *Institute of Laser Physics SB RAS (ILP SB RAS)*
Theoretical and experimental research in the fields of quantum optics and atomic standards, more precisely – on the development of an optical frequency standard based on Mg atoms.
- I developed a thermostabilization system based on LabVIEW and using ADC-DAC and theoretically modeled laser fields interacting with cooled atoms in MatLab.
- Gave talks at international conferences. Assisted in writing articles for scientific journals.

Education

2015 – 2019 **Graduate work at the PhD level in Physics, specialty: Optics**, *ILP SB RAS*, Novosibirsk, Russia, Laser cooling and spectroscopy of cold magnesium atoms localised in a magneto-optical trap for an optical frequency standard.

2013 – 2015 **MSc in Physics**, *Novosibirsk State University, Department of Quantum Optics*, Novosibirsk, Russia

2009 – 2013 **BSc in Physics**, *Novosibirsk State University, Department of Quantum Optics*, Novosibirsk, Russia

Other

Oct 2017 **Predoctoral school** *Cold atoms and quantum transport*, *Les Houches Physics school (Ecole de Physique des Houches)*, Les Houches, France, October 2–13, 2017

Courses and certificates

Web Developer Course, *Yandex.Practicum*, 2021-2022, HTML, CSS, BEM, JavaScript, OOP, React, React Router, Webpack, Node.js, Express, MongoDB, Nginx. Certificate

Interfaces Development: Layout and JavaScript Specialization, *Coursera*, MIPT, Yandex and E-Learning Development Fund, 2021, course 1 of 5. Certificate

Languages

Russian Native

English C1

French A2

Extra info

Interests Digital and analog photography, piano, sport: cycling, running and swimming.

Winner at the 55th International Scientific Student Conference «MNSK 2017» in *Photonics and quantum optical technologies* section. Winner (2018) and third winner (2019) of the ILP SB RAS young students conference contest.

Published several papers with co-authors during my scientific career – on Physics, for now.