Mikhail Makarov

I build things for the web

I am a software engineer specializing in front-end application development. I am currently part of the FlatSoftware team developing a computer-telephony integration system.

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⌂ github.com/MikhailErnstovich

WORK EXPERIENCE

Frontend Developer
FlatSoftware

08/2022 - Present   *Moscow*
The company develops software solutions in the field of corporate communications.

Achievements/Tasks
- Conducted bug fixing, security updates and routine maintaining existing frontend applications
- Implemented new features such as custom photo uploader, complex forms and validation rules
- Worked closely with the QA team and backend developer to set up CI/CD on Jenkins
- Created custom stylesheets to match the corporate theme

Senior Researcher
JSC MERI

09/2016 - Present   *Zelenograd*
Microelectronics Research Institute

Achievements/Tasks
- Carried out lots of theoretical and numerical simulation of various integrated optics devices using Comsol Multiphysics software
- Worked as a technical expert on neural network accelerators, photonic tensor processors and ADCs
- Wrote scientific papers and presented them on conferences
- Communicated with multi-diciplinary teams of scientists, engineers and managers

Contact : Teplov Georgiy, head of lab - gteplov@niime.ru

EDUCATION

Master (Applied Mathematics and Physics)
Moscow Institute of Physics and Technology, MIPT

09/2014 - 08/2016   *Moscow, Dolgoprudny*

Bachelor (Applied Mathematics and Physics)
Moscow Institute of Physics and Technology, MIPT

09/2010 - 08/2014   *Moscow, Dolgoprudny*

SKILLS

JavaScript (ES6+)   TypeScript   Vue 2/3   pinia

Vite   CSS/SCSS   HTML   npm   webpack

node.js   vuex

MY PUBLICAIONS

Energy-Efficient Photonic Memory Cell with Spatially Separated Recording/Erasing and Readout Channels (06/2022)
https://onlinelibrary.wiley.com/doi/10.1002/pssb.202200060 in

Numerical simulation of effective light transmission through a photonic memory cell (05/2021)
https://iopscience.iop.org/article/10.1088/1742-6596/2086/1/012090

Peculiarities of the synthesis of GST films by magnetron sputtering for nonvolatile optical memory cells (04/2020)
https://iopscience.iop.org/article/10.1088/1742-6596/1695/1/012139

Performance of an optical non-volatile $Ge_2Sb_2Te_5$-based storage element (04/2020)
https://iopscience.iop.org/article/10.1088/1742-6596/1695/1/012114

CERTIFICATES

"JavaScript Algorithms and Data Structures" by FreeCodeCamp (09/2021 - 10/2021)
www.freecodecamp.org/certification/fcc0fb53d16-e07a-4e60-9166-8b61529a2b34/javascript-algorithms-and-data-structures

"Interface development and JavaScript" by MIPT and Yandex (07/2020 - 11/2020)
www.coursera.org/account/accomplishments/specialization/certificate/KKPTF2MJ95M8

"HTML and CSS basics" by MIPT and Yandex (06/2019 - 07/2019)
www.coursera.org/account/accomplishments/verify/7L2MGCYCU82G

LANGUAGES

English
Professional Working Proficiency

Russian
Native or Bilingual Proficiency

INTERESTS

Cinema   Economics   Applied Physics   Cooking