Ekaterina (Kate) Klementeva

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EDUCATION

- **Moscow Institute of Physics and Technology (MIPT)** — Moscow, Russia
  B.S. in Computer Science — *Sep. 2017 - Jun. 2021*

EXPERIENCE

- **Facebook** — London, UK
  Software Engineer Intern — *Jun. 2020 - Sep. 2020*

  The internship was canceled due to COVID-19.

- **Huawei** — Moscow, Russia
  Junior Software Engineer, R&D team — *Oct. 2019 - Present*

  `C++` `Python` `Matlab` `PyTorch` `Windows API` `SIMD Programming`
  - Developed and improved the system flows dispatching, developed the CPU-GPU high performance computing module, parallelized systems and modules from signal processing framework.
  - Wrote the framework for special binary formatting of signal data.
  - Developed optimization algorithms for neural networks for signal processing in the team with renowned scientists such as Alexander Gasnikov and Yurii Nesterov.
  - Creating a full-fledged python API to the internal framework written in C++ for solving special signal processing tasks.

- **Huawei** — Moscow, Russia
  Software Engineer Intern, R&D team — *Jul. 2019 - Oct. 2019*

  `Python` `C++` `Matlab` `Tensorflow`
  - Developed a module for tensorflow using C++ for linearizing specific complex radio engineering signals.
  - Result: Written in C++ for tensorflow, the module works 20% faster and 11% more optimally in memory compared to the classic tensorflow tools. This helped to solve specialized tasks for radio signals more optimally.

- **Competentum - EPAM family** — Moscow, Russia
  Junior Analyst, Analyst team — *Sep. 2018 - Jan. 2019*

  `JavaScript` `CSS` `HTML`
  - Performed data analysis, analytical researching, requirements validation, requirements analysis, prototyping of interfaces, platform testing, functional testing of the Pearson Education platform, wrote reports.
  - Result: Optimization of team work, better verification of requirements, the platform for online learning has been successfully implemented for the public.

- **Competentum - EPAM family** — Moscow, Russia
  Intern, R&D team — *Jul. 2018 - Aug. 2018*

  `Python` `Tensorflow` `Beautiful Soup` `JavaScript` `HTML` `CSS`
  - Implemented a special application which allows to teachers to generate a certain number of tasks from one sample task given for their students (concerning the E-Learning sphere).
  - Result: The system was implemented and successfully integrated into the tutoring workflow.

- **Olympiad Winners Association** — Moscow, Russia
  Mathematics Teacher — *Oct. 2017 - May 2018*

  `Math`
  - Trained high-school students for country-wide mathematics olympiads and contests.
  - Result: 4 of my students became winners of the mathematical olympiads.

PROJECTS

- **Personal website KateKlem** — Moscow, Russia

  `JavaScrip` `React` `Node.js` `Heroku`
  Developed own website with personal information

ACHIEVEMENTS

Winner of The Russian Mathematics Olympiads.

PROGRAMMING SKILLS

- **Languages**: C/C++, Python, Java, JavaScript, Matlab.
- **Technologies**: SQL, Tensorflow, PyTorch, Django, React, Git, LaTeX, Docker, Node.js, HTML, CSS
- **Knowledge**: Algorithms, Data Structures, Concurrent Computing, Distributed Systems.