

Polyarnyi Nikolay

Work Experience

- Transas

Since October 2014

Mathematician-Programmer

Server producing 3D landscape reconstructure and true orthophoto stitching from photos taken by UAV. ([presentation](#))

Tools: OpenCV, OpenCL, Python, Cython, Ceres-solver

- Yandex.Money

February 2014 – October 2014

Software Developer (Java backend)

- DevExperts

April 2013 – September 2013

Software Developer (Java backend)

Skills

- **Computer Vision:** structure from motion, multiple view geometry, DSM reconstruction
- **OpenCL:** GPU computations (CUDA if needed)
- **OpenGL, WebGL:** standard shaders rendering and ray tracing
- **Python, Cython, Java, C++**

Education

- Computer Science Center
- ITMO University, Computer Technologies
- PML №239, math circle, programming contests

Activities

- **Open-source:** contributions in OpenCV, PyOpenCL and others. Investigated problems in OpenCL implementations of OpenCV. Implemented GPU profiling in i3pystatus. Was a developer of jtalks.org project (administration control component).
- **Hackathons:** three victories on hackatons. [HackEdu](#) by JetBrains, [Hackday#36](#) (Autodesk 3D-web nomination), [Science Hackday #2](#) (Startup nomination).
- **3D scanner:** during free time developing 3D scanner ([github](#))
- **Math circle:** teaching in math circle at PML №239, participating in math contests organization, mentor of SPb team in the Ural tournaments
- **Programming contests:** contests organization and participation

Contacts

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