Polyarniy Nikolay

Work Experience

- Agisoft

Since April 2016

Mathematician-Programmer

PhotoScan developer. (showcase)

Computer vision, OpenCL and CUDA, computational geometry.

- Transas

October 2014 - March 2016

Mathematician-Programmer

Developed server producing 3D landscape reconstruction and true orthophoto stitching from photos taken by UAV. (presentation, second 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, magic (like haze removal)
- **OpenCL, CUDA**: GPU computations
- **Computational geometry, CGAL**: computations with absolute accuracy, algorithms and structures like Delaunay triangulation
- **OpenGL, WebGL**: standard shaders rendering and ray tracing
- **C++, Python, Java**

Education

- Computer Science Center
- ITMO University, Computer Technologies
- PML #239, mathematical circle, programming contests

Activities

- **Open-source**: contributed to OpenCV, PyOpenCL and others. Implemented Python bindings for OpenCL algorithms in OpenCV. Investigated problems in OpenCL implementations of OpenCV. GPU monitoring in i3pystatus. Was a developer of jtalks.org project (administration control component).
- **Hackathons**: three victories on hackatons. HackEdu by JetBrains (third place), Hackday#36 (Autodesk 3D-web nomination), Science Hackday #2 (Startup nomination). Participation in Junction 2016.
- **Mathematical circle**: PML #239 mathematical circle teacher, SPb school team mentor, mathematical contests volunteer.
- **Programming teacher**: PML #239 programming teacher: 9-1, 10-1, 11-1 in winter 2016/2017, 9-2 since september 2017.
- **Programming contests**: contests organization and participation.

Contacts

- **PolarNick239@gmail.com**
- **PolarNick.com**
- **GitHub**
- **LinkedIn**

Last updated: 11.04.2017