Polyarniy Nikolay

Work Experience

- Agisoft

Since April 2016

Mathematician-Programmer

PhotoScan developer. Mentor of students internship. Researching and implementing algorithms for 3D reconstruction. (blog, 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)

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, magic (like masks transfering, delighting and 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: OpenCL modification of EDISON mean shift segmentation. Contributions to OpenCV, PyOpenCL and others. Implemented Python bindings for OpenCL algorithms in OpenCV. GPU monitoring in i3pystatus. Was a developer of jtalks.org project (administration control component).
- Hackathons: four awards on hackatons. HackEdu by JetBrains (third place), Hackday#36 (Autodesk 3D-web nomination), Science Hackday #2 (Startup nomination). Participation in Junction 2016, 2017. Third place on HackCV (traffic signs recognition).
- 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

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- GitHub
- LinkedIn

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