Polyarnyi Nikolay

Work Experience

- AgiSoft

Since April 2016

Mathematician-Programmer

PhotoScan developer. (showcase)

Computer vision, computational geometry, GIS.

- Transas

October 2014 - March 2016

Mathematician-Programmer

Developed server producing 3D landscape reconstruction 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, magic (like haze removal)
- Computational geometry: computations with absolute accuracy, applications like DEM contours simplification without intersections
- OpenCL: GPU computations
- OpenGL, WebGL: standard shaders rendering and ray tracing
- Python, C++, 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).
- 3D scanner: develop 3D scanner during free time (github)
- \bullet Mathematical circle: PML #239 mathematical circle teacher, SPb school team mentor, mathematical contests volunteer
- Programming contests: contests organization and participation

Contacts

- LinkedIn
- GitHub
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