Polyarnyi Nikolay

Work Experience

- Transas

Since October 2014

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

- **OpenCL**: GPU computations

- **OpenGL, WebGL**: standard shaders rendering and ray tracing

- **Python, Cython, Java, C++**

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, Hackday#36 (Autodesk 3D-web nomination), Science Hackday #2 (Startup nomination).

- **3D scanner**: develop 3D scanner during free time (github)

- **Mathematical circle**: PML #239 mathematical circle teacher, SPb school team mentor, mathematical contests volunteer

- **Programming contests**: contests organization and participation

Contacts

- **LinkedIn**

- **GitHub**

- **PolarNick239@gmail.com**

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