Eduard Kazakov

Specialist in GIS and Earth remote sensing
Cartographer, Researcher

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Key technical skills:

- Deep expertise in QGIS, GRASS, SAGA software. Basic expertise in ArcGIS ecosystem.
- Python for geospatial data processing and automation. NumPy, SciPy, GDAL/OGR, matplotlib, scikit-learn, pandas.
- Topographic and thematic mapping. From data collection to map design.
- Hydrologic, geomorphometric, urban analysis in GIS.
- Web GIS technologies and standards.
- Remote sensing data processing with toolboxes (ENVI, SNAP, Metashape, OpenDroneMap, Google Earth Engine) and python code.
- Geodata management with PostreSQL/PostGIS.
- Geospatial data ETL pipelines
- Solving computer problems and basics of server administration (Unix, Windows). Git, bash, docker.

Experienced professional in Geoinformatics, Cartography, and Earth remote sensing with a scientific background. Contributor and popularizer of open-source geospatial software, especially QGIS. Environmental science, GIS, and maps lover.

Wide experience in geospatial technologies mastering for different areas (from water resources management to archaeology, from climatology to urban studies) allows me to look at any geographic problem from different angles and use multidisciplinary approaches.

Kontur.io
Geospatial Data Engineer (2022.07 - 2023.03)

Mastering geospatial data pipelines using PostGIS, python, bash. Contributing to open-source Geocint framework and Kontur population dataset

NextGIS LLC
Director of educational programs (2021.01 - 2022.04)

Designing and conducting educational courses on NextGIS Software, QGIS, GRASS/SAGA, Python for geographical problems. GIS trainings, webinars, consulting. Presentations for clients.

Software developer, GIS Analyst (2019.02 - 2021.01)

Developing QGIS plugins and python scripts for geospatial data processing. Mapping, GIS analysis, creating tutorials

Russian State Hydrological Institute
Head of geoinformatics group (2019.02 - 2021.01)

Managing a group of engineers and scientists in the field of GIS for water resources management and hydrological modeling. Scientific research, GIS analysis, mapping, software development

Key non-technical skills:

- Scientific and technical writing
- Lecturing and presentations
- Scientific literature interpretation/generalization

Also about me:

- Best pastime: family, hiking, reading
- Knowledge-sharing enthusiast
- Russian (native)
- English (professional working proficiency)
- Serbian (basic)

Nansen International Environmental and Remote Sensing Center

Junior researcher, Researcher (2016.03 - 2019.01)

Scientific research (remote sensing, GIS, climate, oceanology). Developing an applied automated monitoring system of sea ice based on radar remote sensing data.

Saint Petersburg State University

Lecturer (2014.09 - 2017.08)

Designing and conducting educational courses on cartography, GIS, remote sensing, photogrammetry, and geodesy. Supervising students' projects.

Saint Petersburg State University

MSc in Geoinformatics (2009 - 2014)

LinkedIn: https://www.linkedin.com/in/eduard-kazakov-gis
Scientific papers: https://scholar.google.com/citations?user=kUaRzT4AAAAJ
Code: https://github.com/eduard-kazakov
Some projects: https://eduard-kazakov.github.io/projects

Keywords

Geoinformatics Earth remote sensing Spatial analysis Spatial data Cartography Software development Lecturing Scientific research Environmental monitoring Data engineering Team management Project management Scrum QGIS GRASS SAGA ArcGIS MapInfo NextGIS Web Google Earth Engine Field data collecting QField NextGIS Collector Geodesy Photogrammetry UAV Statistics Machine learning ENVI Agisoft Metashape OpenDroneMap OpenStreetMap SQL PostGIS Python GDAL/OGR matplotlib pandas scikit-learn numpy Docker JavaScript Git Bash Linux Solving computer problems ETL pipelines PyQt OGC standards Sentinel Landsat MODIS VIIRS SAR Geomorphometric analysis of DEMs Hydrologic analysis of DEMs Network analysis Potree Automation Copernicus data and services FME Desktop Apache AirFlow