

# Pasmurtsau Mikhail Alegavich

## ***Web-GIS developer/analyst***

### Contacts:

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### Education:

High school:  
Gomel city liceum №1 (mechanics and mathematics)  
Univercity Education:  
Belarussian State Univercity  
Graduation qualification:  
GIS and cadaster specialist

### Graduation diploma title:

«Gomel region tourism prospects measurement with usage of GIS»

### Programming and development skills:

Python (geopandas, PyCRS, arcpy, pyproj) PHP (laravel, PDO, curl), SQL (postgresql, postgis), JavaScript (ES6, Leaflet, OpenLayers, axios, и пр. Basics of Vue, React, React Native)

### GIS software skills:

Edvanced user of QGIS, ArcGis (Enterprise, ArcMap, Arctoolbox, ArcgisPortal). Skills of JOSM as OSM contributor. Have some skills in ENVY, ERDAS IMAGINE, Mapinfo.

### Team working:

GIT, Jira, MondayDev. Figma.

### Tecnologies and formates:

Postgis, ogr2ogr, WMS, WFS, geoserver, Linux server administration (Debian 11) bash scripting, Docker, nginx, CI/CD, geoJSON, WKT, EWKT, shapefile, kml, DSV (including CSV), xlsx, gpx. osm.

### Data Bases:

PostgreSQL, MySQL, ArcSDE, SQLite.

### Current occupation:

*from 08.2021 — at current moment.*

Science department specialist at National park «Priyatsky».

### Work field:

National Park «Pripyatsky» web-GIS portal development.

### Tasks that was sucessfully completed during the software development period:

1. Choose technology stack for GIS-portal development.
2. Develope a workflow processes sequence.
3. Organize RDBMS data storage and it`s backup with Postgresql.
4. Write a programming module for popular basemaps services usage. (Google, Yandex, OSM and local Belasussian services such as map.nca.by, gismap.by, dzz.by

5. Write a skeleton for web-portal application (leaflet.js) and it's backend side. (PHP + SQL).
6. Run and test written client-server architecture.
7. Deploy created and debugged architecture as a multi images application in Docker:  
 JS => client side (data visualization, UI for primitives creation (lines, polygons, points), export tools, spheroid measurement tools (coords, area, distance), user data uploading, server communication with axios, GIS-analysis GUI for postgis methods);  
 PHP => server side structure, CRUD operations;  
 Python => file formates and coordinate systems conversion ;  
 PostgreSQL + postgis => geodata storage, GIS-analysis functions.
8. Teach users to use portal, upload their data and perform basic gis-analysis operations.

At current moment i work on new features development, their testing and portal performance improvements, including migration to Node.js.

#### Professional skills:

Full-stack development, self-education and special documentation reading, technical and business conversation, English B1-B2, workflow processes documentation creation, experience of staff education.

Able to lead a team up to 7-10 specialists.

#### Work change reason:

1. Desire to work in company where GIS and mapping is a main product specialization.
2. Far work office location (Belarus, Gomel region, Petrikov district, village Liaskovichy)

#### Other:

Can show only limited code examples from gis-portal GIT-repositories, because of data status as «For special usage only».

Will be happy to show my skills at interview.

