

Alikhan Beisenbayev

Web GIS / Remote sensing specialist

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🔗 /RassCrom 📁 Portfolio



Professional Experience

September 2023 –
September 2024
Armenia, Remote

Junior GIS Specialist, Traceair technologies [🔗](#)

- Cleaned DEMs using Traceair web platform
- Made panoramic views from UAV images in Photoshop

September 2023 –
December 2023
Astana, Kazakhstan

GIS Analyst, KazGISA LLP [🔗](#)

- Administered backend GIS for geoportal using GeoServer, pgAdmin, PostGIS, and QGIS
- Implemented Mapbox vector tile plugin in GeoServer to optimize performance for a Leaflet web map, improving rendering speed and scalability for massive vector data by 30%

September 2022 – June 2023
Long Beach, USA

GIS Lab Technician, Geography department at CSULB

- Advised and helped students in using ArcGIS, QGIS, and arcpy
- Developed a Python script to calculate vegetation indices for UAV images (in total 100 images)
- Developed an ArcHub data hub for storing and visualising UAV data

May 2021 – August 2022
Online, Internship

GIS Engineer, HERE technologies [🔗](#)

- Digitised and performed data collection
- Web scraped 3 open-source web maps using BeautifulSoup4
- Created 2 web maps using Leaflet.js [🔗](#)

Education

October 2024 – October 2026
Munich, Germany

Master of Science in Cartography, Technical University Munich [🔗](#)

Erasmus Mundus Scholarship

September 2018 – June 2022
Astana, Kazakhstan

Bachelor of engineering in geodesy and cartography,

L. N. Gumyilov Eurasian National University

- Final project: "Satellite Image Analysis for Water Detection and Visualization: A Web-based Approach using NDWI and Leaflet" [🔗](#)

Skills

GIS: QGIS, SAGA, PostGIS, ArcGIS Pro, geoprocessing

Remote Sensing: Google Earth Engine, SNAP, Agisoft Metashape, Image segmentation, Spatial indices, Aquatic applications, Satellites - Sentinel-1, 2; Landsat, MODIS

Programming skills: JavaScript, Python - gdal, rasterio, geopandas; PostgreSQL

Web Dev & Mapping: HTML & CSS, React, redux, node.js, Maplibre / Mapbox, leaflet, turf, GeoServer, t-rex tileserver, Tailwind

Design & Visualization: Figma, Blender,

Management tools: Git, GitHub, Trello, Notion

Certificates

Cartography: [🔗](#) Esri | **Python for beginners** [🔗](#) | **Command Line:** [🔗](#) Codecademy |

Drought Assessment using GEE: United Nations University | **Building Interactive Websites:** Codecademy |

Imagery in Action: Esri

Volunteering

March 2023 – present
Online

Missing Maps, Volunteer Satellite Imagery Technician [🔗](#)

- Interpreting satellite imagery to identify features

January 2020 –
September 2020
Online

HERE Technologies, Cartographer

- Digitised road networks and building footprints in Central Asia with a total of over 14,000 changes for better navigation in here map applications

Languages

English		Kazakh	
Russian		Japanese	

Interests

- Archery

• Table tennis
- Cycling

• Volleyball
- Football