Herfiadi Reski Alviansyah

0822 8558 0351 | herfiadireskialviansyah03@gmail.com |
linkedin.com/in/herfiadi-reski-alviansyah-b66482333 | github.com/herfiadi447

Profile

Geophysics Graduate from Hasanuddin University with strong interests in GIS, Remote Sensing, Geospatial Analysis, and WebGIS Development. Experienced in spatial data processing, land suitability analysis, and WebGIS development through government collaboration projects. Proficient in Python, QGIS, ArcGIS, PostgreSQL/PostGIS, and modern geospatial technologies. Passionate about applying geospatial science to support environmental management, agriculture, and resource planning.

Education

Hasanuddin University (2022 - 2026)
Bachelor of Geophysics (S.Si) - GPA 3.81

Experience

Mapping Survey & Drone Operator Assistant – HPL Transmigration Land Inventory & Verification Team, West Papua 2026

- Conducted field surveys and mapping to support inventory and verification of transmigration land (HPL) in West Papua Province, covering approximately 3,000 ha in Manokwari and 718 ha in Teluk Wondama.
- Assisted drone survey operations by supporting field preparation and observing the execution of pre-planned flight missions.
- Assisted GNSS geodetic field surveys by setting up base and rover units; data processing was handled by the technical team.
- Produced land cover maps for ~3,000 ha (Manokwari) and 718 ha (Teluk Wondama) through manual delineation of 2021-2025 Sentinel-2 imagery, and developed a Python script to correct topology errors (overlaps and gaps).
- Generated annual NDVI maps (2021-2025) from Sentinel-2 imagery for the Manokwari and Teluk Wondama study areas.

Junior Web Developer – PT Geocode Smart Solution 2025

- Developed WebGIS platforms such as GeoAI Barru, Geopangansidrap, and Sijagung.
- Designed and implemented AI chatbot features using n8n and Supabase to enhance user interactivity.
- Worked with PostgreSQL/PostGIS and MySQL for spatial data management.
- Developed and improved UI/UX for GIS applications using Leaflet and Folium

Intern – UPT PLN Makassar 2025

- Developed a spatial distribution map of High-Voltage Transmission Towers (SUTT) in Makassar City.
- Created a landslide susceptibility map for each SUTT location in Makassar City.

Field Surveyor – Hasanuddin University – LPPM Witaris 2025

- Conducted field surveys to map agricultural farmer groups (POKTAN) using geospatial data collection techniques.
- Collected and validated spatial and attribute data for each mapped area.

Intern – Kedaireka MBKM, Kabupaten Barru 2024

- Collaborated with the Barru Regency Government under the Kedaireka MBKM program to develop a WebGIS platform for agricultural land suitability analysis.
- Assisted in building an interactive WebGIS system to support local stakeholders in improving agricultural resource efficiency and land-use decision-making.
- Contributed to the development of an interactive WebGIS system and performed data entry by inputting, organizing, and verifying spatial and attribute data within the platform.

Certifications

- **Fundamentals of Remote Sensing** – NASA Applied Remote Sensing Training (ARSET), November 2026
- **Geospatial Analysis** – Kaggle Learn, November 2026

Skills

Technical skill: ArcMap/ArcGIS, QGIS, Spatial Analysis (Overlay, Buffer, Interpolation, Raster Analysis, Terrain Analysis, Suitability Analysis), Python Programming for GIS Applications (GeoPandas, Rasterio, GDAL,PyGMT), WebGIS Development (Flask, Leaflet, Folium), Field Survey Support (UAV/Drone Survey Assistance, GNSS Geodetic Receiver Setup – Base & Rover), PostgreSQL / PostGIS MySQL, Spatial Data Management, AI Chatbot Integration (RAG, n8n, Supabase).

Languages: Indonesian – Native, English – Upper-intermediate CEFR (EF SET)

Award & Achievement

- **Gold Prize – ACRS 2025 (Asian Association on Remote Sensing)**

  Awarded for the project “WebGIS-Based GeoAI Application for Agricultural Land Governance in Barru Regency, South Sulawesi, Indonesia” presented at the 46th Asian Conference on Remote Sensing (ACRS 2025).

PORTOFOLIO

- https://herfiadireski.vercel.app/
- https://geotoolbox.vercel.app/
- https://geobarru.vercel.app/
- https://sijagung.id/
- https://geopangansidrap.id/
- http://geoaibarru.com/