GIAN FELIX RAMADAN

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PROFILE

Graduate of the Bachelor's program in Cartography and Remote Sensing, Universitas Gadjah Mada. Competent in the fields of Geographic Information Science (GIS), Remote Sensing, Aerial Mapping, Photogrammetry, and Mapping/Cartography.

EDUCATION

- **Bachelor of Science (S.Si.), Universitas Gadjah Mada**   2017-2021
  Program Study Cartography and Remote Sensing
  Department of Geographic Information Science, Faculty of Geography
  GPA : 3.48/4.00

- **Purwadhika Digital Technology School**   May – August 2023
  Bootcamp Fullstack Web Development

EXPERIENCE

GIS Specialist, Carbon Ethics   2023
- Build and organize geodatabase of required spatial data
- Analyze spatial data related to ecosystem rehabilitation
- Support the implementation of ecosystem rehabilitation in reducing carbon emissions in the field of GIS

Individual Consultant, Kantor Wilayah BPN Kalimantan Timur   2022
- Facilitated the Implementation of Agrarian Reform at the Provincial Level
- Coordinated the Provision of TORA Land Data in the Context of Asset Management for East Kalimantan Province
- Responsible for Processing GIS-based Spatial Land Data

Drone Operator, Enumerator of the Faculty of Forestry, Universitas Gadjah Mada   2021
- Implementing Monitoring of Mangrove Rehabilitation Areas in the Riau Archipelago through Aerial Mapping Using a Multirotor Drone
- Geotagging photo data processing survey results using ArcGIS software

Assistant Drone Mapping Trainer, SinauGIS Consultant   2021
- Assisting lead trainers in delivering content and conducting hands-on practice sessions using Mission Planner, multirotor drones, and Agisoft software for both students and workers.

GIS Operator, SinauGIS Consultant   2021
- Responsible for extracting geographical features from remote sensing imagery for the preparation of the Banjarasri Village Land Use Plan Map in Kulonprogo Regency, DI Yogyakarta.
- Implemented participatory mapping for the government of Banjarasri Village during the Land Use Plan Map preparation.

Research Assistant, Master's Program, IPB University   2020 - 2021
- Developed a model for land cover change and land use using digital classification with the maximum likelihood algorithm.
- Conducted accuracy testing for land cover and multi-temporal land use mapping models.

Assistant for Cartography Practicum, Faculty of Geography, Universitas Gadjah Mada   2020 - 2021
- Delivered instructions and guided students in using mapping instruments and software.
- Collaborated with the team to formulate concepts and design final exam questions.

Assistant for Remote Sensing Practicum, Universitas Gadjah Mada   2020 - 2021
- Coordinated the implementation of remote sensing practical sessions.
- Led material delivery, processed remote sensing data, and supervised the practical use of multi-rotor drones.
- Contributed to designing the implementation concept, as well as creating final exam questions in collaboration with the assistant team.

Assistant for GIS Practicum, Universitas Gadjah Mada   2019 - 2021
- Coordinated the execution of GIS practicum sessions.
- Responsible for delivering instructional content and processing GIS data using ArcGIS and QGIS.
- Collaborated with the assistant team to formulate implementation strategies and design final exam questions.

ACHIEVEMENTS

- **Presenter at the 33rd National Student Scientific Week (PIMNAS 33)** organized by the Ministry of Education and Culture | December 2020
- **Finalist in the 2nd Geoinnovation PetaKita Geospatial Information Agency Competition** organized by the Geospatial Information Agency (BIG) | October 2019
- **Runner up in the University of Indonesia G-Days National Scientific Writing Competition (LKTIN)** hosted by Geography Program Study, Faculty of Mathematics and Natural Sciences, University of Indonesia | November 2019
- **First Place in the National Scientific Writing Competition (LKTIN) MERCATOR LOGIN** organized by Geodesy Engineering, Faculty of Engineering, Universitas Gadjah Mada | March 2019

PUBLICATION

- Main author and GIS data processor for **"Prediction and Simulation of Land Use and Land Cover Changes Using Open Source QGIS: A Case Study of Purwokerto, Central Java, Indonesia"** in the Indonesian Journal of Geography with Dr. Iswari Nur Hidayati (011/2020 – 06/2021).
- Main author and remote sensing data processor in **"Analysis of Spatial Patterns of Urban Growth Using Remote Sensing Data: A Study in Purwokerto, Central Java, Indonesia"** presented at The 7th Geoinformation Science Symposium 2021 with Dr. Iswari Nur Hidayati (06/2020 – 02/2021).
- Participated in multi-temporal data processing for the systematic review study **"Analysis of Urban Comfort Level in Java Island based on Air Temperature and Air Quality in 2015 – 2019"** with Siti Saringatin, Elyana IW, and Dr. sc. Sanjiwana Arjasakusuma, S.Si., M.GIS (09/2020 – 12/2020).
- Main author and model creator of GIS Network Analysis in the Geomatics National Seminar: **"Analysis of Affordability of Health Facilities Using Network Analysis Modeling in Yogyakarta City"** with Eriko Prawunda D., Amanda Maishella, Maryam AA, and Dr. Prima Widayani, S.Si. (12/2019 – 06/2020).

LICENCE

- Remote Pilot Certificate - Indonesian Drone Pilots Association (APDI) – Reg. No. 1500 – 2022 (26 June 2022 – 26 June 2024)

ABILITY AND EXPERTISE

- **Geographic Information Science (GIS)**
  - ➢ GIS for Network Analysis, land cover change, settlement quality, and urban environment
  - ➢ *Software*: ArcGIS Desktop, ArcGIS Pro, and QGIS
- **Web Development**
  - ➢ Front End Development: Javascript, React JS, Chakra UI, HTML, CSS and Figma
  - ➢ Back End Development: Express JS, REST API, and SQL
  - ➢ *Software*: Visual Studio Code, My SQL, PostgreSQL, and Postman
- **Remote Sensing**
  - ➢ Remote sensing for land change analysis, time-series, settlement quality, urban areas
  - ➢ Optical remote sensing and aerial photography
  - ➢ *Software*: ENVI, Google Earth Engine, and R
- **Aerial Mapping**
  - ➢ Flight path planning, calibration, orthomosaics and photogrammetry
  - ➢ *Software*: Mission Planner, Drone Deploy, Pix4D, DJI Go series, Agisoft Photo Modeler,
- **Cartography**
  - ➢ Cartography for mapping data visualization
  - ➢ *Software*: PetaKita, Open Street Map
- **Media**
  - ➢ Video editing, photography and design graphics
  - ➢ *Software*: Adobe Premiere Pro, and Corel Draw

LANGUAGE

- **Bahasa**: Advanced
- **English**: Intermediates