

# 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.

- 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

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- **Presenter at the 33<sup>rd</sup> National Student Scientific Week (PIMNAS 33)** organized by the Ministry of Education and Culture | December 2020
- **Finalist in the 2<sup>nd</sup> 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

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- 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 (01/2020 – 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

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

#### ABILITY AND EXPERTISE

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- **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

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