AFIFAH PROGESTINA HAFIZH

0895614516285 | afifah.pro2002@mail.ugm.ac.id | linkedin.com/in/afifah-progestina-hafizh-322367231 | https://s.id/afifah-portfolio

I am an undergraduate third-year student at Universitas Gadjah Mada with a passion for Geographic Information Systems (GIS), spatial data science, aerial surveying, and remote sensing. I possess proficiency in handling and visualizing spatial data, including expertise in using ArcGIS for advanced geospatial data manipulation. My focus areas include WEB GIS-based programming projects, Android development for GIS analysis, leadership, data acquisition, mapping, and surveying. I am dedicated to applying and expanding my expertise to contribute meaningfully to the evolving field of geospatial technology, leveraging my problem-solving skills to develop innovative applications and solutions.

Education Level

Universitas Gadjah Mada - DI Yogyakarta

Undergraduate in Geographic Information System, 3.52/4.00

- Relevant Course Cartographic; Geospatial Database Land Surveying; Global Navigation Satellite System; Remote Sensing Image Interpretation; Spatial Data Visualization; Land Cover and Land Use Mapping; Spatial Data Handling; Aerial Survey; Spatial Statistics; Geospatial Data Science; Geospatial Dekstop, Web and Mobile Programming; GIS for Water Resources, Coastal, adn Marine Applications.

Senior High School 108 Jakarta - Jakarta Selatan, D.K.I. Jakarta   Jul 2018 - Jun 2021

Senior High School in Mathematics and Natural Sciences, 86.50/100.00

Project -based Learning and Work Experiences

Bangkit Academy led by Google, Tokopedia, Gojek & Traveloka   Feb 2024 - Present

Mobile Development Cohort

Dicoding is a startup company that aims to develop the developer ecosystem in Indonesia. Founded on January 5 2015, Dicoding has an electronic learning platform on the Dicoding.com page. Dicoding has been accredited as the only Official Google Developer Training Partner in Indonesia. Dicoding is one of the 20 members of the ASEAN working group that created the Future ASEAN Agenda plan for TVET (Technical and Vocational Education Training).

- GitHub App
- Machine Learning Application for cancer detection

Assistant Lecturer of GIS: Data Manipulation - Sleman, DI Yogyakarta   Feb 2024 - Present

Universitas Gadjah Mada

- Provided comprehensive tutorials to a class of 72 students, guiding them through advanced GIS Manipulation techniques.
- Monitored student progress closely, providing individualized feedback and assistance to address any challenges encountered during the tutorials.
- Taught advanced GIS techniques, including: Simplifying, smoothing, and aggregating spatial data for analysis. Analyzing data clustering and service areas using tessellation and Thiessen polygons. Performing proximity analysis through buffer creation. Conducting overlay analysis for tsunami risk assessment. Developing and evaluating digital elevation models (DEMs) using interpolation techniques. Creating derivative models from DEMs for raster surface analysis. Building raster function models using ArcGIS ModelBuilder.

Field Work Practice - Data Acquisition and Mapping in Kecamatan Ngargosari, Kabupaten Kulon Progo, Daerah Istimewa Yogyakarta   Jun 2023 - Jul 2023

- Data Preparation: Digitized building blocks and categorized land use to ensure accurate and reliable mapping.
- Aerial Photography: Conducted high-resolution aerial photography using Agisoft, resulting in precise and detailed images.
- Population Data Acquisition: Led population data collection with a focus on accuracy, testing to ensure reliable demographic information.
- Mapping and Visualization: Used ArcGIS StoryMap to create detailed population maps and visualizations of land use patterns and village profiles, enhancing the understanding of demographic and land use dynamics.

PETARUNG (Perangkat Lunak Perencanaan Tata Ruang)   Oct 2022 - Nov 2022

Matching Fund Direktorat Jenderal Pendidikan Vokasi Tahun 2022

- Collaborated within a team to carry out detailed surveys on land use and cover, handling data processing, validity checks, and crafting accurate land cover maps.
- Contributed significantly to illustrating survey results through detailed maps, using advanced GIS techniques for improved clarity and accuracy.

- Helped organize and manage fieldwork logistics for the surveys, ensuring smooth operations and timely data collection.

Organizational and Event Experiences

PPSMB Pionir Gadjah Mada 2023 - Sleman, DI Yogyakarta Apr 2023 - Nov 2023
Co-Fasilitator
Pelatihan Pembelajaran Sukses Mahasiswa Baru (PPSMB) Pionir UGM

- PPSMB Palapa UGM is an orientation event for new students at UGM.As a Co-fasilitator, I have the responsibility to facilitate and introduce every aspect of UGM to the freshman, delivered material creatively and attractively and also become a role model for the freshman.

Gadjah Mada Menginspirasi - Turi, Sleman, DI Yogyakarta Jan 2023 - Nov 2023
Teacher
Gadjah Mada Inspire is a platform to serve the community on the basis of a high spirit of concern initiated by the Ministry of Social Affairs, BEM KM UGM

- Conduct engaging and interactive teaching sessions every Saturday with a dedicated focus on character development among students.
- Develop and deliver curriculum content aimed at shaping the character and values of students, fostering personal growth and ethical behavior.

Keluarga Mahasiswa Departemen Teknologi Kebumian (KMDTK) - Sleman, DI Yogyakarta Jan 2023 - Present
Division of Social community
Organization of the earth tecknology departement which oversees two study program at the UGM Vocational School

- Division is responsible for developing social welfare programs such as social assistance, cash aid, child and family protection programs, population control, poverty alleviation programs, and rural community empowerment.

Student Association Of Remote Sensing and Geographic Information System (STARGIS) - Sleman, DI Yogyakarta Feb 2023 - Present
Chief Treasurer
Organization in the geographic information systems study program at the UGM vocational school

Student Association Of Remote Sensing and Geographic Information System (STARGIS) - Sleman, DI Yogyakarta Aug 2022 - Feb 2023
Treasurer
Organization in the geographic information systems study program at the UGM vocational school

- Recorded financial reports related to budgeting, fund realization, and treasury of the STARGIS.
- Managed proposals and financial accountability reports.

Festival Anak UGM - Turi, Sleman, DI Yogyakarta Oct 2023 - Nov 2023
Treasurer
Festival Anak is an annual event held by Gadjah Mada Menginspirasi as a farewell to partner school

- Successfully managed pre-event budgeting, overseeing the allocation of funds for various aspects of the Festival Anak UGM.
- Coordinated financial planning, including revenue projections and expenditure forecasts, ensuring fiscal responsibility and optimal resource utilization.
- Implemented effective financial controls and monitored expenses during the event, maintaining a balance between quality and cost-efficiency.
- Post-event, conducted a thorough financial analysis, reconciling expenses and income to provide comprehensive reports for evaluation and future planning.

SKILLS AND LANGUAGES

- **Certificate** ⊘: Confirmed member of the Bangkit Academy - Mobile Application Development cohort. Participated in an intensive course facilitated by Google, Tokopedia, Gojek, and Traveloka. Dedicated to enhancing mobile app development skills and collaborating on relevant industry projects. Committed to personal growth and making positive contributions to the Bangkit Academy community.
- **Soft Skills**: Teamwork, Creativity, Management, Critical Thingking, Problem Solving, Attention to Detail, Adaptability
- **Hard Skills**: Map Making, Spatial Data Processing & Analysis (ArcGIS Dekstop & Pro, ENVI, PCI Geomatics, Agisoft), Survey & Fieldworking, Database Management (PostGIS, PostgreSQL, MySQL, dBeaver), Aerial Photography, Data Science & Analysis (Python, SQL, R, Tableau Public), Apps & Website Development (JavaScript, HTML & CSS, PHP), Kotlin languages program, Machine Learning
- **Languages**: Indonesia [Native], English