

Ryan Zulqifli

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SUMMARY

I am a passionate and dedicated GIS and data analyst with a strong foundation in data processing and a flair for creating innovative, data-driven solutions. I have extensive experience in using Python, SQL, Tableau, and various GIS tools to analyze, visualize, and communicate data insights. I am committed to continuous learning and skill development, as well as contributing meaningfully to the professional landscape. Through my hands-on projects and academic pursuits, I have honed my abilities in data analysis and I am eager to leverage my expertise to make impactful contributions in the dynamic field of data analysis.

EDUCATION

Gadjah Mada University, Geodetic Engineering	2020-present
Senior High School 1 Pontianak	2017-2020

EXPERIENCES

MBKM PT Bhumi Varta Technology

South Tangerang, ID

GIS Engineer Intern

September 2023 – December 2023

- Perform spatial data analysis and modeling to derive meaningful insights and inform decision-making.
- Collect, process, and maintain geospatial data from various sources, ensuring data accuracy and integrity using python and sql.
- Utilize remote sensing techniques and satellite imagery for monitoring and analysis of geographic features using Google Earth Engine and Quantum GIS.

Project-Based Internship ID/X Partners x Rakamin

Online

Data Engineer

December 2023

- Implement a data warehouse that optimizes data storage for efficient retrieval and analysis.
- Deepens ETL processes, improves data flow efficiency and ensures seamless integration of diverse data sources into target warehouses.

Assistant Lecturer for Physical Oceanography, Geodetic Engineering UGM

Yogyakarta, ID

Assistant Lecturer

August 2022 – December 2022

- As part of the assistant lecturer team, facilitated tutorial sessions and provided additional materials outside regular class hours for more than 100 students enrolled in the oceanography physics course.
- Assisted teaching faculty in assessing student assignments and contributed to the overall evaluation process.

Assistant Lecturer for Basics of Geophysics and Astronomy Geodetic Engineering UGM

Yogyakarta, ID

Assistant Lecturer

February 2022 – June 2022

- As part of the assistant lecturer team, facilitated tutorial sessions and provided additional materials outside regular class hours for more than 100 students enrolled in the Basics of Geophysics and Astronomy course.
- Assisted teaching faculty in assessing student assignments and contributed to the overall evaluation process.

Satellite-based Engineering and Earth Dynamics (SEED) Mature Member Research Group

Yogyakarta, ID

Mature Member Research Group

January 2021 – May 2022

- Explored data processing techniques for Earth dynamics using Linux-based systems.
- Delved into earthquake data processing utilizing Gamit/Globok.

Self-Internship at Kementrian ATR/BPN Kota Pontianak

Pontianak, ID

Cadastral Surveyor

January 2021

- Conducted quality control for the creation, correction, and update of land certificates, ensuring data accuracy and compliance with regulations.
- Performed land area measurements using Real-Time Kinematic (RTK) techniques, using GPS devices and specialized software, and presented the results in the form of digital maps.

PROJECT EXPERIENCES

Scraping Data with Python

South Tangerang, ID

GIS Engineer Intern

September 2023 – December 2023

- Active in data production via web scraping at PT Bhumi Varta Technology using **python selenium** and **beautiful soup**
- Organization of the database resulting from data production using **PostgreSQL**.

Data Cleaning, Manipulation, and Analysis at PT Bhumi Varta Technology

South Tangerang, ID

GIS Engineer Intern

September 2023 – December 2023

- Python-based data cleaning and manipulation of scraped data so that the data becomes more organized and can be carried out further analysis using **pandas dataframe**.
- Analyzing scraped data and examining statistical values can be achieved through various Python modules, including **Plotly Express, Seaborn, Matplotlib, Pandas**, and others.

Remote Sensing and GIS Analysis for BUILT-UP AREA

South Tangerang, ID

GIS Engineer Intern

September 2023 – December 2023

- Working on a challenging project for a client in the Jabodetabek (Jakarta, Bogor, Depok, Tangerang, Bekasi) region, which involved utilizing remote sensing analysis and Geographic Information Systems (GIS) to analyze built-up areas.
- Processed land classification data using Google Earth Engine

Geodynamic Geoid Model of Kalimantan Island

Yogyakarta, ID

Research Assistant Geometrical Geodesy & Physical Geodesy Lab.

May 2023 – August 2023

- Worked as a research assistant on the Geodynamic Geoid Model project for Kalimantan Island, focusing on MultiSatellite Terrestrial Geodetic Data for sustainable development.
- Processed gravity data from GRACE and GOCE satellites using MATLAB, GRAMAT User Toolbox (GUT), and Surfer 16.
- Assisted in processing DEMNAS data for height conversion and gravity analysis using GIS tools.

HONORS AND AWARDS

Top 5 Finalist 2023 ArcGIS International Esri StoryMap Competition

Online, International

Creator, Copywriter, and Analyst

October 2023 – December 2023

- Achieved recognition as one of the top 5 finalists internationally out of 100+ participants from over 60 academic institutions spanning **20 countries and 21 U.S. states** in the **2023 ArcGIS Esri Story Map Competition**.
- Collaborated within a four-member team to create a compelling story map addressing “Current threats to the health of lands, waterways, and wildlife and the impacts on the communities in and around protected and conserved areas.”
- Created a Story Map titled "Eroded Emerald," elucidating GIS-based mapping concerning the historical background, existence, factors, and concrete solutions to ensure the continued existence of the green peafowl, especially on the island of Java.
- Designed the concept, wrote the copy, and enhanced the readability of the story map

1st Winner National Paper Competition SSAK, Institut Teknologi Sumatera

Online, National

Researcher, GIS Technician and Analyst

November 2022 – January 2023

- Title: Priority Restoration Area Mapping Degraded Peatland Utilizing Satellite Database as a Minimization Effort Weather and Climate Anomalies

Top 10 Finalist International Economic Review (IER), Pertamina University

Online, International (ASEAN)

Researcher, GIS Technician and Analyst

October 2022 – November 2022

- Title: Carbon Trading as a Commitment to Climate Change Mitigation and Clean Energy to Achieve Net Zero Emission in Southeast Asia Using Satellite Technology Based on Google Earth Engine Processing

2nd Winner National Paper Competition Fisika Expo V, Universitas Bengkulu

Online, National

Researcher, GIS Technician and Analyst

October 2022 – December 2022

- Title: Interactive 3d Visualization of Spatial Modeling Based on Augmented Reality (AR) Geothermal Energy Extraction Activities Using Satellite Technology (Case Study of Wae Sano)

2nd Winner National Paper Competition LOGIN MERCATOR, Universitas Gadjah Mada

Online, National

Researcher, GIS Technician and Analyst

January 2022 – April 2022

- Title: DKI Jakarta Geospatial Report 2017—2020: Claim Analysis Governor Anies Baswedan's Performance in Development Capital with a Satellite Image Processing Approach

3rd Runner-up National Video Competition One Map Policy Kemenko Bidang Perekonomian

Online, National

Creator, Researcher and Analyst, Copywriter

October 2022 – December 2022

2nd Winner Paper Competition Industrial Engineering FEST UPNV Jawa Timur

Online, National

Researcher, GIS Technician and Analyst

October 2021 – December 2021

- Title: Spatial Modeling of Illegal Sand Mining Activities Multitemporally and Multicolinear Using Webgis-Based Satellite Technology (Case Study of The Opak River Estuary)

5th Runner-up National Essay Competition LEION Universitas Gunadharma
Researcher, Copywriter

Online, National
January 2021 – March 2021

1st Winner LCC Indonesia Language Balai Bahasa Kalimantan Barat
LCC Team

Online, Regional
November 2019

LICENSES & CERTIFICATIONS

Duolingo English Test (DET) 110/160 (Equivalent to band 6.0 in IELTS, 76-81 in TOEFL iBT, and B2 CEFR	2023
“Data Engineer” Project-based Internship offered by Rakamin x ID/X Partners	2023
“Data Engineering” offered by IBM – Coursera	2023
“Data Analysis with Python” offered by IBM - Coursera	2023
“Python Lanjutan” course offered by Skilvul with A grade .	2023
“Python Dasar” course offered by Skilvul with A grade .	2023

ORGANIZATIONS

Head of Department Media, Design, and Publication Formagama Kalimantan Barat	2021
Staff of Department Education and Research Keluarga Mahasiswa Teknik Geodesi Universitas Gadjah Mada	2022
Staff of Public Relations Sekolah Alam UGM	2022
Staff of Public Relations Gamacendekia UGM	2022

VOLUNTEERING

Education Volunteer Sekolah Alam UGM	2022
Campaign Volunteer Harisenincom	2021
Campaign Volunteer Seribu Manfaat ID	2021

SKILLS & INTEREST

Skills: Microsoft Office (Word, Excel, PowerPoint), Python Programming, Tableau, SQL, ArcGIS, QGIS, Google Earth Engine (GEE), AutoCad 3D/Map 3D, StoryMap, Surfer, ArcGis Pro, Vuforia, Unity, SketchUp, Artivive

Interests: GIS Analyst & Processing, Spatial Data Analyst, Web Scrapping, Data Engineer, Spatial Research, Product & Solution.