

## Fajri Ilham Mughni, S.T.

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### Overview

A highly motivated individual with a strong background in data management, organizational leadership, and scholarship achievements. Experienced in managing databases, leading student organizations, and contributing to academic and innovation events. Awarded multiple national scholarships, including BLB ITB and PYC. Proven communication, analytical, and teamwork skills through roles in student councils and national programs. Passionate about continuous learning, community development, and making meaningful contributions to both technical and social initiatives.

### Educations

1. Bandung Institute Of Technology (ITB) June 2018 – April 2023  
Geological Engineering : GPA 3.26/4.00 (154 Creds)  
Thesis Title : Evaluasi Geologi Lingkungan Untuk Pengembangan Wilayah Kecamatan Sentolo Dan Sekitarnya, Kabupaten Kulon Progo, Provinsi Daerah Istimewa Yogyakarta. (Environmental Geology)
  - a. Engaged in multidisciplinary collaboration through business innovation at PEC EXPO 1.0 (Universitas Airlangga, 2020), integrating geology, entrepreneurship, and social impact, and was selected for Kampus Merdeka as an Assistant Researcher in in design and multidisciplinary knowledge at Design Ethnography Laboratory FSRD (DE Lab) ITB.
  - b. Awarded Verbal Commendation at Paragon Innovation Circle (2021) for proposing community-focused innovation
  - c. Recipient of national and institutional scholarships recognizing academic excellence and leadership, including Beasiswa Luar Biasa ITB Batch 9, Purnomo Yusrigantoro Center (PYC), Dato' Low Tuck Scholarship
  - d. Leadership & Multidisciplinary Activities:
    - Led spiritual well-being programs as Spiritual Division Manager, HMTG "GEA" ITB (2021), bridging environmental awareness and mental health
    - Head of inter-departmental fundraising initiatives as Head of Fundraising, FITB 2018 Batch Student Representative Council (DPA)
    - Participated in Kelas Akal Budi by SabangMerauke Foundation (2020), focusing on empathy-building and cross-cultural education
    - Joined StudentCatalyst Chapter 2 (2018), promoting youth involvement in social innovation
    - Contributing writer at [SuaraGEA 2021](#), producing articles on sustainability and social-geological perspectives
2. Short-term professional course Dibimbing.id November 2024 – May 2025  
Data Science and Analysis : Score 77.61/100.00 (21 Weekly Topic)  
Final Project Title :
  - Crisis and Analysis: Data-Driven Insights into the 2008 US Economic Crisis through Journal and Academic Publication Impact
  - What Do You Like to Eat? A Personalized Indonesian Food Recommendation System
  - a. Hands-on projects in statistics, data analytics, machine learning, and data visualization
  - b. Technical Skills: Python, SQL, Google Data Studio, Web Scraping, ETL, RFM Analysis, Power BI, A/B Testing
  - c. Techniques: Business Understanding, Hypothesis Testing, Exploratory Data Analysis (EDA), SQL Querying, Linear Regression.

## **Relevant Experience**

1. Husky-CNOOC Madura Limited (HCML)  
Database Management Officer

February 2024 – Present

Task and Responsibility :

  - Supported the Subsurface Department's operational needs by sourcing over 100 data points from internal archives and the Ministry of Energy and Mineral Resources' MDR database
  - Managed data in SharePoint Subsurface and Petrel Studio; administered DBMaps application
  - Merged and organized over 1,000 hardcopy and digital data items into structured databases
  - Maintained over 20,000 folders and 180,000 files updated daily across cloud and on-premise systems
  - Completed certifications; SNI ISO 30301 (P3RI), Geospatial Data Analysis Using Python (Geosoftware Online Course), Microsoft Excel VBA MACRO (Jubilee Enterprise), Data Science for Subsurface Records
  
2. Resilient Development Initiative (RDI Indonesia)  
Disaster Preparedness and Community Resilience Intern

February 2023 – May 2023

Task and Responsibility :

  - Contributed to the Baseline Report for the SinerGi II Project, designing data visualizations (line and bar charts) of survey data, surpassing 100% target achievement
  - Integrated primary interview data and secondary datasets (Google Spreadsheet, Kobo Toolbox) into the SinerGi II framework, fully meeting project goals
  - Assisted in primary data collection using FGD and KII methods; observed enumerators conducting surveys for WVI's evaluation, covering 10+ key informants
  
3. Pusat Air Tanah & Geologi Tata Lingkungan ESDM  
Environmental Geologist Intern

March 2022 – July 2022

Task and Responsibility :

Assisted in environmental geology mapping for the “Integrated Environmental Geology of DIY Province” project, fulfilling final project requirements and presenting research findings to PATGTL. Developed land change data in Yogyakarta using environmental geology maps, satellite imagery, and historical land use data—utilizing over five geospatial tools to construct land change maps from 1997 to 2023. Additionally, created the “Evaluation for Development City” project in Kulon Progo Regency by integrating environmental geology data with the Analytic Hierarchy Process (AHP), culminating in a successful presentation after three months of research.

## **Project Experience**

1. Leave No One Behind (LNOB) Study 2023 by United Nations (UN) Indonesia      Sept 2023 – Dec 2023  
Research Assistant  
Task and Responsibility :
  - Contributed to “Immersive Study on People with Disabilities in Indigenous Communities”, supporting UN Indonesia’s Leave No One Behind (LNOB) initiative
  - Collected secondary data on food security indices, locations of indigenous peoples, disaster risks, health conditions, and social vulnerabilities in Sumba and Jayawijaya
  - Conducted and transcribed in-depth interviews with academics, CSOs, disability organizations, and disability service centers to enrich research insights
  
2. HMTG “GEA” ITB      March 2021 – February 2022  
Head of Mental Health Management  
Task and Responsibility :
  - Led the development of GEA ITB’s first dedicated mental health division, focusing on education, counseling, and external partnerships
  - Achieved 100% OKR completion within BP HMTG ITB 2021/2022, becoming the leading initiative on mental health awareness across ITB student organizations
  
3. EARTH DAY ITB 2019      August 2018 – July 2019  
Head of Mental Health Management  
Task and Responsibility :
  - Directed two divisions (Fundraising & Sponsorship), leading a team of 10 members
  - Secured partnerships with 7 major Indonesian companies through active engagement, sponsorship negotiations, and project management for environmental initiatives

## **Expertise**

- Technical Skills : Python, SQL, QGIS, ArcGIS, ILWIS, CorelDRAW, Microsoft Office, Google Workspace, Adobe, Power BI, Google Data Studio, Web Scraping, ETL
- Techniques : Data Analysis, Geospatial Analysis, Research & Reporting, Lithological Mapping, Analytical Thinking, Business Understanding, Exploratory Data Analysis (EDA), Data Visualization, Statistical Analysis
- Areas of Interest : Environmental Data, Social Impact Analysis, Multidisciplinary Collaboration, Sustainability-Oriented Decision Making
- Attachment : [Project Based Portfolio](#)