

Muhammad Fajrul Haqqi

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PROFILE

A software developer of Geoseismal and graduated from Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia with a Bachelor of Science degree in Geophysics. Current research activity and interest in data analysis and software development specifically in geoscience cases.

WORK EXPERIENCE

SOFTWARE DEVELOPER – Yogyakarta, Indonesia

Geoseismal

Feb 2022 – Present

- Contracted for 10 months as a software developer to develop Spectragama v.3.0, the passive seismic processing software. This software is an upgrade from the last version with executable files that still have many bugs to cloud-based software.
- Contracted for 7 months to develop Petragamant, the Ambient Noise Measurements (ANT) processing software to v.2.0. I have the responsibility to design and develop diagrams and 3D visualization plots that will upgrade from the last version.
- Both of these projects are a collaboration between Universitas Gadjah Mada and a State-Owned Enterprise of Indonesia that is engaged in the oil and geothermal sector, namely Pertamina Hulu Energy in research and software development.

FREELANCE TUTOR – Indonesia

Self-Employment

Mar 2016 – Present

Edufio

Nov 2021 – Present

- Accustomed to teaching since school and started to commercialize personally as a freelance tutor from high school, with students being taught from kindergarten to undergraduate preparation. In 2021 join the tutoring institute Edufio to teach some students regularly
- Mastering in material related to calculations such as mathematics, physics, and chemistry. Some students I have taught to prepare for their undergraduate have been accepted at UGM, UB, and Telkom University

SPARVEON – Banten, Indonesia

Tech Intern

Sep 2021 – Nov 2020

- Contracted in the first month to analyze 3D seismic data in solving problems related to the use of artificial intelligence for seismic fault identification
- Worked as a backend developer in AI-based seismic processing software to be released. The responsibility to develop code in converting seismic fault images into an integrated format in other software. Analysis results and code have been validated and can be deployed into software

FIELD CAMP SEG UGM SC – Yogyakarta, Indonesia

Web Developer

Dec 2020 – Mar 2021

- Developed and organized geophysics field project sites from previously used CMS WordPress to CSS Framework
- This project has provided more useful experience in understanding a series of geophysical projects, wherein 2021 research will be carried out in the Universitas Gadjah Mada area

WIDYA ANALYTICS – Yogyakarta, Indonesia

Data Science Intern

Jul 2020 – Oct 2020

- Worked as a data scientist for an AI-based algorithm development service that focuses on Natural Language Processing (NLP). The responsibility to analyze recent twitter data such as data scraping, pre-processing, and visualization

BOB PT BSP - PERTAMINA HULU – Riau, Indonesia

Drilling and Workover Intern

Des 2019 – Jan 2020

- Introduced the role and tools used by each department in Zamrud Field, Siak.

- The responsibility to identify and interpret rock and fluid properties of the formation by electrical, acoustic, radioactive, electromagnetic, and other measuring properties

EDUCATION & TRAINING

UNIVERSITAS GADJAH MADA – Education

Sarjana Sains (Bachelor of Science)

Aug 2017 – Aug 2021

- Graduated from Geophysics Major, Mathematics and Natural Sciences Faculty; Awardee provincial government full scholarship is given only to forty students out of all applicants. (GPA: 3.37 out of 4.00)
- Final Thesis: *Estimation of Effective Porosity Well Log Using XGBoost and Random Forest Algorithm*

DIGITAL TALENT BY KOMINFO – Training

Data Scientist provided by DQLab

Oct 2021 – Nov 2021

Machine Learning provided by IBM

May 2021 – Jul 2021

- R Fundamental for Data Science | Fundamental SQL using Select Statement | Statistics using R for Data Science | Data Visualization in Data Science using R | Data Science in Marketing - Customer Segmentation | Machine Learning for Retail Project with R - Product Packaging | Loan Classification Analysis Project for the MSME sector | Assessment Project using R
- Introduced Programming using Python | Data Analysis with Python | Basic Data Visualization | Elements of AI | Machine Learning for Beginners | Machine Learning Development

SANBERCODE BOOTCAMP – Training

Backend Microservices using Python

Apr 2021 – May 2021

Advanced-Data Science

Jun 2020 – Aug 2020

- Basic Python | Basic SQL | Basic NoSQL | Basic Microservice & RESTful API
- Basic Python | Pandas | Visualization | Machine Learning | WebScraping with Python | Data Mining with Scikit Learn | NLP | Database | API

LEADERSHIP

BEM KM FMIPA UGM – Yogyakarta, Indonesia

Human Resource Staff

Nov 2017 – Oct 2018

Minister of Entrepreneurship

Nov 2018 – Oct 2019

- As part of the human resource staff in selecting faculty cooperative employees, as well as managing the internal performance of the entrepreneurship staff
- As a minister of entrepreneurship, I have a responsibility to lead entrepreneurial activity in faculty with related organizations. As well as, the main manager of the faculty cooperative with revenue of up to 30 million rupiahs every month

GADJAH MADA OIL AND GAS CLUB – Yogyakarta, Indonesia

Public Relations Staff

May 2017 – Oct 2018

Vice Head of Public Relations

Nov 2018 – Oct 2019

- The responsibility to manage and design gadjah mada oil and gas social media those who start to be active regularly have posted. And as public relations departments provide speakers at every seminar
- The main event of the young leader energy camp (YLEC) was attended exclusively by 20 participants and invited keynote speakers from the Minister of ESDM, SKK Migas, National Energy Council, etc

ACHIEVEMENT

3rd Winner DELFI Data Science Hackathon – Jakarta, Indonesia

Schlumberger

Oct 2021

1st Winner Poster Competition – Bandung, Indonesia

International Undergraduate Geophysics Competition by TERRA ITB

Feb 2021

Finalist Idea Competition – Jakarta, Indonesia

TheNextDev by Telkomsel

Dec 2020

1st Winner Paper & Poster Competition – Yogyakarta, Indonesia

International Energy Summit by AAPG UGM

Oct 2020

ADDITIONAL

Technical: Python, R, Machine Learning, Deep Learning, SQL, HTML, CSS, JavaScript

Languages: Native Proficiency in Indonesia; Fluent in English (IELTS Score 5.5, B2 Upper-Intermediate)