

# MUHAMAD FIRDAUS BIN LAHMUDDIN

## Research Analyst/ Data Analyst

A graduate with a degree in Mathematics and a strong foundation in programming and possessing excellent communication, critical thinking, and interpersonal skills gained through research projects, valuable internship experiences, and professional training courses. Proficient in collecting, organizing, analyzing, transforming, interpreting, and mining data using statistical analysis software, with the ability to deliver valuable insights and develop interactive dashboards for relevant decision-makers. Seeking opportunities to enhance knowledge and skills as a professional data analyst in diverse working environments, contributing to business growth through innovative solutions and efficient code development.

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### EDUCATIONS

#### BACHELOR OF SCIENCE IN MATHEMATICS

- Universiti Teknologi Malaysia
- September 2018 – September 2022
- CGPA: 3.18

#### MATRICULATION

- Kolej Matrikulasi Kelantan
- June 2017 - June 2018
- CGPA: 3.45

### PROFESSIONAL DEVELOPMENT

#### DATA STAR PROGRAM

##### - Center Applied Data Science (CADS)

##### - Yayasan Peneraju

- Learned programming language and some of computer software and hardware
- Learn SQL and NoSQL language, and how to connect and create database to MySQL and MongoDB
- Handled Big Data using Apache Spark
- Practiced data storytelling skill by analyzing client's behavior and what we should tell them about data
- Used Tableau to give meaningful insight from various of data
- Deep understanding of descriptive statistic to provide a quick and simple way to summarize a large dataset, making it easier to understand and interpret the data

#### DATA ANALYST TRAINEE

##### - Air Asia Academy

##### - Google Cloud Partnership

- Learned data analysis, data science, and machine learning fundamentals.
- Analyzed complex data to identify, analyze, and predict trends and patterns associated with potential regulatory risks.
- Proficient in analytics tools and techniques, including R and Python, and creating interactive data visualizations using shiny packages.
- Applied statistical and predictive analytics to real-world data, informing decision-making processes.

### EXPERIENCES

#### RESEARCH ANALYST March 2023 - Present

- Fronix Sdn Bhd
- Generate python scripts to convert data from a txt file to csv format for further analysis and remove the unnecessary text.
- Using MySQL to query the specific data from remote server and show them in website using Flask that integrate with HTML, CSS, and JavaScript and deploy on PythonAnywhere and store the data in GitHub.
- Provide support by creating dashboard design and data visualization to end-users.
- Perform front-end and back-end processes using CSS, HTML, and JavaScript for assigned projects after analyzing and query data using Python and SQL.
- Extract and perform some complex data transformation using ETL approach.
- Using VMware to create Ubuntu Virtual Machine and install oTicket in the remote server and integrate with Active Directory.

#### GITN PROTEGE (DATA ANALYST) October 2022 – February 2023

- Telekom Malaysia Berhad
- Trained to become a Professional Data Analyst under Business Solution Team
- Analyzed Big Data and created interactive dashboard using Power BI, Python and Web Framework as Streamlit
- Created various Graphic User Interface to display all information needed by users.

#### RESEARCH INTERNSHIP July 2021 - October 2021

- Organization Development Department, Universiti Malaysia Kelantan
- Analyze data in Microsoft Excel for higher-ups and learn Python Coding
- Conducted research on Time Series Forecasting for Car Sales

### HONORS & AWARDS

#### NURRAYSA'S TRAINER (2021)

- Managed to recruit 150 new Nurraysa's dropship within two months

#### DEAN'S LIST AWARD (2019)

- 1 out of 8 completed semesters.

#### PROFESSIONAL SKILLS CERTIFICATE

- Data Star Program Data Analyst Certificate
- Data Analyst Certificate (AirAsia Academy)
- Data Science in Python
- Learning Data Analytics
- Python Fundamentals Track
- SQL Fundamentals Track

SOFTWARE SKILLS

- Microsoft Office (Excellent)
- Microsoft Visual Studio (Excellent)
- MySQL (Intermediate)
- Anaconda Navigator (Intermediate)
- Python (Intermediate)
- R Studio (Intermediate)
- NoSQL (Intermediate)
- Power BI (Intermediate)
- Tableau (Intermediate)
- Command Line (Intermediate)
- VirtualBox (Beginner)
- VMware (Beginner)
- MongoDB (Beginner)

EXTRA-CURRICULARS

VISIT TO THE MINISTRY OF YOUTH AND SPORTS (2019/2020)

-Vice director

- Managed meetings and contact person in charge of Ministry of Youth and Sports.
- Monitored others committee members about the event progress.

AWARENESS CAMPAIGN DURING COVID-19 PANDEMIC

-Head of publicity

- Coordinated program and discussed the progress through the meeting.
- Exposed the campaign through the social media.

ANNUAL DINNER HIMPUNAN SISWAZAH KELANTAN (HIMSAK) UTM (2019/2020)

-Committee member

- Planned to increase exposure of event.
- Managed the poster making to attract others come to event.

MALAM KENANGAN SRMUTMJB 2018

-Committee member

- Directed others to make their jobs clean the event spot.
- Monitored all the movement of the participants.

INTERNATIONAL SYMPOSIUM ON ADVANCED DATA ANALYSIS AND OPERATIONAL RESEARCH (IADORE2020)

-Participant

- Learned process of data analysis and operational research
- Identified a problem and constructed a model that resembles the real world.

LANGUAGES

- Malay (Excellent)
- English (Intermediate)

PROJECTS

PROJECT VISION MEASAT | ROLE: RESEARCH ANALYST

- Provide assistance and planning to build a monitoring tool for Measat project
- Generate a visualization dashboard using Graphana to provide interface ideas.
- Conducted research on monitoring tool, such as Uptime Kuma, Observium and Zabbix, to enhance monitoring concept.
- Provided input and ideas for the design of a mockup dashboard.

TELEKOM MALAYSIA BANDWIDTH UTILIZATION ANALYSIS | ROLE: DATA ANALYST

- Build bandwidth utilization dashboard using Python and Streamlit
- Cleaned data to get useful data for visualization purpose.
- Discussed internally to design and add new idea to improve the dashboard
- Test dashboard to detect error and make error handling to solve it

FINAL YEAR PROJECT | ROLE: STATISTIC RESEARCHER

- Title: Forecasting Crude Oil Price in Malaysia Using Geometric Brownian Motion (GBM)
- Analyzed data and visualized trend of the data.
- Forecasted the result using Geometric Brownian Motion (GBM)

TIME SERIES ANALYSIS PROJECT | ROLE: RESEARCH INTERNSHIP

- Title: Forecasting the Car Sales Using Simple Linear Regression (SLR)
- Cleaned data in Microsoft Excel by using Moving Average (MA) and Center Moving Average (CMA) methods.
- Visualized forecasting results and compared the pattern with previous result to get a better vision.

FORECASTING PROJECT | STATISTIC RESEARCHER

- Title: Forecasting the Production of Crude Oil in Malaysia using Multiple Linear Regression
- Analyzed the best correlation to get best fitting model and removed the unnecessary variables.

VOLUNTEERS

NATIONAL LEVEL MARCHING COMPETITION

- Hulu Langat, Selangor
- Representing Jabatan Pertahanan Awam Malaysia (JPAM)
- Trained mental to compete in various situations
- Learned and competed in early treatment, rope tie and marching competition
- First place in early treatment competition and got 5-star rating in marching competition

DIGITAL STORY TELLING (DST) ANIMATION COMPETITION

- State Educational Technology Division in Kelantan
- Created a digital story as a representation of short movies created mainly through personal stories using digital tool
- Created a scene by layer to make smooth movement of the 3D character using Pensil 2D Software and Alice Software

LARIAN PATRIOTIK 2013

- RKT Kesedar Paloh, Gua Musang Kelantan
- Instilled the spirit of patriotism to the participants while practicing a healthy lifestyle

REFERENCE

DR HAZZIRAH IZZATI BINTI HASSIM

- Academic Advisor
- Department of Mathematical Sciences, Universiti Teknologi Malaysia, Johor.