



## MUHAMMAD AMIR HAMZAH BIN ABD AZIZ

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**Portfolio:** <https://amoiir.github.io>

### OBJECTIVE

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Detail-oriented graduate with 6 months of hands-on experience as a software android developer intern and foundational knowledge in business intelligence and analytics concepts. Skilled in SQL, data visualisation (Power BI, Tableau), and Python for data manipulation. Seeking an entry-level Data Analytics role to contribute to innovative projects and apply expertise in data-driven projects. **Available to start working immediately.**

### EDUCATIONAL BACKGROUND

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**International Islamic University Malaysia, Kuala Lumpur** (November 2020 – November 2024)

Bachelors in Information Technology specialized in Business Intelligence and Analytics (Honours)

CGPA:3.75/4.00

### WORK EXPERIENCE

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**WAHDAH Technologies, Melaka** (March 2024 – August 2024)

*Android Programmer (Internship)*

- Developed key Android app features using Kotlin, MVVM architecture, and Android SDK components to enhance user experience and improve app functionality.
- Integrated REST APIs and Google Maps API to enable seamless transactions and location-based services, leveraging data-driven insights for better decision-making.
- Collaborated in an agile environment to troubleshoot issues, conduct API testing using Postman, and support app deployment, demonstrating adaptability, teamwork, and a commitment to continuous improvement.

### RESEARCH PROJECT

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**House pricing analysis, Microsoft Excel dashboard Project** (2025)

- Analysed a Kaggle dataset to visualize median house prices in Malaysia for 2025, providing state-level insights.
- Designed an interactive dashboard using pivot tables to derive key insights on median house prices and price per square foot across different states.

**Final Year Project, SwitchAR, AR Virtual Switch Control for IoT-Based Smart Home Automation.** (2024)

- A partnered Final Year Project aimed at helping the elderly become more independent with home appliances.

- Proposed and developed a mobile application using Flutter and Unity application that incorporates IoT and AR concepts, resulting in an innovative solution that provide the elderly with an intuitive and interactive way to control and interact with home appliances.

### **Crime Analysis in Malaysia, Tableau Visualisation Project.**

**(2023)**

- Created an interactive Tableau dashboard to visualize crime trends in Malaysia using datasets from the OpenDOSM website.
- Designed time-series graphs and geographical heatmaps to highlight crime rates over time and across regions.
- Implemented filters for year, month, and crime type to enable dynamic exploration of data.

## **ACTIVITIES AND INVOLVEMENT**

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### **Hackathon MAP2U X USIM 2024, State level competition**

**(2024)**

- Brainstormed and proposed a decentralized secure payment using blockchain concepts to improve public transportation providing a secure and safe environment when commute with public services.
- Built and visualized online dataset from data.gov.my using Power BI to understand the trends of people using public transport from the year 2020 until 2023 together with population trends in Malaysia.

### **KPMG IIUM Student Ambassador**

**(2023)**

- Successfully represented IIUM as student ambassador, promoting programs through online and offline platforms, engaging 50–70 students per event.

## **ACHIEVEMENTS**

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- Dean's List recipient (8 out of 8 semester), University level. **(2024)**
- Malaysia Data Innovation Talent 2023, National Level, Top 50 among 120 groups. **(2023)**

## **CERTIFICATE**

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- SQL Fundamentals, DataCamp, Online course. **(2025)**
- Intermediate Python, DataCamp, Online course. **(2025)**
- Postman API Fundamentals Student Expert, Postman, Online course. **(2024)**

## **SKILLS**

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- **IT Proficiency:** Microsoft Office, Visual Studio Code, Microsoft SQL Server, Firebase
- **Programming & Scripting:** Python, SQL, Kotlin, Dart, JavaScript, Java, C++, PHP, HTML, CSS
- **Data Engineering & Analysis:** Data Cleaning, Data Wrangling, Data Modelling, ETL Processes
- **Data Visualization & BI Tools:** Power BI, Tableau, Microsoft Excel (Pivot Tables, Dashboards)
- **Database Management:** MySQL, Microsoft SQL Server, Firebase, PostgreSQL (basic)
- **Version Control & Collaboration:** Git, GitHub, GitBash
- **API Development & Testing:** REST APIs, Postman, API Integration
- **Cloud & Deployment Tools:** Firebase, Google Cloud (basic)
- **Language Proficiency:** Bahasa Malaysia (Native), English (Intermediate), Arabic (Beginner)