

# MUHAMMAD FARHAN BIN MOHD NAZIR

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## EDUCATION

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**INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA** **KUANTAN, PAHANG**  
*Master of Science (Computational and Theoretical Science)* **2021-2023**

**INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA** **KUANTAN, PAHANG**  
*Bachelor of Mathematics* **2017-2020**  
*Concentration in Financial Mathematics; Minor in Business*  
Cumulative CGPA: 3.65  
Relevant Coursework: Linear algebra, Computational Mathematics, Financial Mathematic 1,2 and 3

## PROFESSIONAL EXPERIENCE

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**UNIVERSITI TENAGA NASIONAL** **MUADZAM SHAH, PAHANG**  
**Internship - Finance Department** **2019**

- Validate and optimize data templates to ensure accuracy and efficiency in handling information.
- Implement corrective measures to ensure data integrity and accuracy through rigorous validation processes.
- Responsible for meticulously updating and maintaining student data, ensuring accuracy and completeness for effective record-keeping.
- Proficient in creating and managing invoices, demonstrating a keen ability to handle financial transactions with precision and attention to detail.

**INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA** **KUANTAN, PAHANG**  
**Research Assistance - Computational and Theoretical Sciences Department** **2021-2023**

**Supervisor: Asst. Prof Dr Hafizah Binti Bahaludin**

Worked as a research assistant, which involved researching the correlation between Shariah-compliant stock in Bursa Malaysia. During this research project I had the following responsibilities

- Conducted data cleaning and imputed missing values to ensure accurate and reliable datasets. Implement corrective measures to ensure data integrity and accuracy through rigorous validation processes.
- Developed *R* code for precise calculation of correlations, enhancing data analysis and interpretation.
- Applied statistical techniques to create network tree based on correlation data, facilitating efficient visualization and pattern recognition in complex datasets.

## PUBLICATION

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Nazir, F., Mohamad, N. N., & Bahaludin, H. (2021). Comparison of Correlation for Asia Shariah Indices using DCC-GARCH and Rolling Window Correlation. *Applied Mathematics and Computational Intelligence*, 10(1), 203-219.

## ADDITIONAL

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**Technical Skills:** Proficient in R, RStudio, MATLAB, Python, PostgreSQL, MySQL, HTML/CSS, JavaScript, TypeScript, Node.js, React, Next.js

**Language:** Fluent in both Bahasa Melayu and English, with proficiency in both written and verbal communication.

**Awards:** Achieved Dean's List status for seven semesters and was recognized on the Rector's List throughout degree program. Received bronze Award in the Applied Health Sciences Student category at IUM Research & Innovation Day 2022 (IRID2022).

## REFERENCES

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Nurul Najihah Binti Mohamad  
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IUM Kuantan Campus  
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