Amer Fathullah Nuaim **Zakaria**

FULL STACK DEVELOPER · ML ENGINEER

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"Trust the process."

Summary

Junior Full Stack Developer at fin-tech company TFX Islamic Sdn Bhd. Have developed the procurement module which is a part of the Enterprise Resource Planning (ERP) project in the company. 2+ years of diverse software engineering experience such as front-end development, back-end development, mobile development and machine learning.

Love to work in a team, continuous learning and agile environment. Interested in writing cleaner code, devising a better problem-solving method for challenging tasks, and learning new technologies and tools.

Work Experience

TFX Islamic Sdn. Bhd.
Petaling Jaya, Selangor

JUNIOR FULL STACK DEVELOPER
Jun. 2022 - Present

- Develop front-end and back-end modules for ERP platform.
- Gather the requirements and discuss the system workflow of the Procurement module with the stakeholder.
- Design and develop the entire workflow of the Procurement module based on the requirements of the stakeholder.
- Maintain staging and production environment in Amazon Web Services (AWS).
- Maintain and debug the code of other modules in the ERP project. Refactored the code to improve the performance of data filtering from the database for documentation and reporting purposes.
- Designing and developing the inventory management module to keep track of the stock in and out transfer, restock count from goods received notes and sales from invoices. Display it on a month-to-date and year-to-date basis.
- Undertake other duties of similar nature as reasonably required by the immediate supervisor from time to time.

CEFS Response
Kerteh, Terengganu

TECHNICAL REVIEW & COMMUNICATION EXECUTIVE
Mar. 2022 - May. 2022

- Developed mobile apps for digitization and automation of company work process.
- Negotiated and discussed with vendors and contractors that supply company equipment
- Participated in industrial firefighting and wild animal capture training.
- Reviewed the equipment inspection report at every plant monthly as scheduled.
- Liaised with the procurement department to issue purchase orders for expired or insufficient equipment in the company premises and issued purchase requisitions to buy new equipment for company uses.
- Diagnosed and performed services for faulty equipment in the company, especially surveillance equipment.

Skymind CNS Sdn. Bhd.
Georgetown, Penang

FRONTEND ENGINEER & JUNIOR AI ENGINEER
Jan. 2021 - Dec. 2021

- Developed the front-end of an AI-based security camera monitoring system that detects potential dangers across multiple video footage.
- Developed the front-end of Vpass website, an AI-based web application to facilitate contact tracing efforts in response to the COVID-19 pandemic in Malaysia.
- Implemented multiple third-party API services for SMS two-factor authentication email notifications for Vpass website.
- Developed Vpass administration dashboard that employer uses to keep track of and monitor the COVID-19 status of their employees within their company.
- Developed a dashboard for Vpass pharmacists to handle false positive results of Vpass COVID-19 test kit that needs to be verified manually by the human eye. The false positive results are then sent to the AI model for retraining purposes.
- Researched reinforcement learning algorithms suitable for smart traffic light systems to reduce traffic congestion problems at the traffic light using a traffic simulation program.
- Researched and developed an AI model using machine learning or deep learning to detect vehicles and simulate them in an open-world simulation program.
- Wrote documentation on the research methodology and approach when training the AI models, specifically in the field of machine learning in computer vision.
- Became a mentor for an Artificial Intelligence Graduate Employability Training (AI-GET) program, a program that teaches the interested individual to learn the basics of Machine Learning in Computer Vision.

Sapura Thales Electronics Sdn. Bhd.
Ampang, Selangor

CUSTOMER SERVICE ENGINEER INTERN
Jun. 2019 - Aug. 2019

- Learned and developed the front-end and back-end of an inventory management system that tracks and monitors the repair history of the company's products using PHP and MySQL.

University Project

(Final Year Project) Integrated Web & Mobile App Based KOE Venue Reservation

- A system that facilitates the venue reservation process in Kulliyyah of Engineering, IIUM Gombak.
- Technologies used: Ionic framework, Typescript, Firebase.

Arduino-Based Smart Health Monitoring System

- A smart system that monitors the patients remotely and will send warning signals if the patient's health deteriorates.
- Technologies used: Arduino.

Online Ratings for Electronic Gadgets for Commercial Purpose

- An electronic rating review analysis using Support Vector Machine and Multinomial Naïve Bayes algorithms.
- Technologies used: Python, scikit-learn, Machine Learning.

IIUM Runner Website

- A system that handles customers' requests for IIUM runner.
- Technologies used: Laravel framework, PHP, MySQL.

Honors & Awards

UNIVERSITY AWARDS

2019/2020 **Dean's List**, International Islamic University of Malaysia		*Semester 2*
2019/2020 **Dean's List**, International Islamic University of Malaysia		*Semester 1*
2018/2019 **Dean's List**, International Islamic University of Malaysia		*Semester 1*
2017/2018 **Dean's List**, International Islamic University of Malaysia		*Semester 2*

Certificates

2022	**Build an app with ASPNET Core and Angular from scratch**, Udemy	
2022	**Flutter & Dart - The Complete Guide [2022 Edition]**, Udemy	
2021	**Graduate Engineer**, Board of Engineers Malaysia	
2021	**Artificial Intelligence from Data Perspective**, CertifAI	*27396017*
2021	**Certified Engineer in Computer Vision**, CertifAI	*26599895*

Education

International Islamic University of Malaysia   *Gombak, Selangor*

B.E. (HONS) IN ELECTRONICS-COMPUTER INFORMATION   *Jul. 2016 - Aug. 2020*

- Member and committee of multiple clubs and communities such as Art Club, E-Sports Community, Capoeira Club.

Centre for Foundation Studies, IIUM   *Petaling Jaya, Selangor*

FOUNDATION IN ENGINEERING   *May. 2015 - Jun. 2016*

- Foundation studies in preparation to enter university.

Skills

Programming Language

- Flutter, Python, Scikit-learn, Java, OpenCV, DL4J, C++, JavaScript, AngularJS, ReactJS, HTML, MySQL, PHP, Laravel, PyTorch, TensorFlow, sumo, Carla, Ionic, Typescript

Hardware

- Arduino, Altera Quartus, Eagle PCB

Other Software/Tools

- Deep Learning, Machine Learning, Computer Vision