

# Muhammad Fahmi bin Jaafar

## Full Stack Developer at ExxonMobil

MSc. Microengineering & Nanoelectronics, BSc. Communication Engineering.

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### WORKING & FREELANCING EXPERIENCE

#### **FULL STACK DEVELOPER – (NOV 2021-PRESENT)**

ExxonMobil, Kuala Lumpur.

- Created CMS web application based on Python (Flask), while utilizing OpenShift and GitHub.
- Integrated automation scripts for AppGate application, built by JavaScript and Python.
- Developed APIs and multi-connections between SNOW, AppGate SDP, DBM and Front-End application using FastAPI, Marshmallow, and SQLAlchemy and React.
- Built automation script based on yaml, running through the Ansible Tower.
- Methodologies: Scrum/Agile.

#### **SENIOR PROGRAMMER – (APRIL 2021 – OCTOBER 2021)**

Y.S.P. Industries Sdn. Bhd, TTDI, Kuala Lumpur.

- Manage K2 Projects for system automation
- Developed React Native cross platform mobile application with PHP-built admin management system.
- Fulfilled customized data analysis and dashboard for ecommerce platform based on PHP

#### **IT DEVELOPMENT PROGRAMMER – (JUN 2019 – MARCH 2021)**

Y.S.P. Industries Sdn. Bhd, TTDI, Kuala Lumpur.

- Built PHP & LAMP stack based Web Application for inventory and management system
- Integrating JavaScript, ASP.NET, C# and K2 with SQL database for various data automation system
- Developed reporting tools and information dashboard by means of SSRS, d3.js, node.js and html.
- Involved in development of e-commerce website using IIS, on WordPress (WooCommerce).
- Created mobile application for product tracking system, on React Native and Java.
- Methodologies: Waterfall

#### **INSTRUCTOR & WEB DEVELOPER– (2019-PRESENT)**

MajalahSains.com, Science4Derp.com & FizikKini.com.

- Managed a few nonprofit websites on Science, Technology, Engineering, and Mathematics knowledge.
- Involved in occasional coding and science camps for students as an instructor.

#### **TEACHING STAFF – (MAY 2019)**

Institute of Microengineering and Nanoelectronics(IMEN), Universiti Kebangsaan Malaysia, Bangi, Selangor.

- Provided COMSOL (Computational Fluid Dynamics) & MATLAB software training to postgraduate student

#### **RESEARCH ASSISTANT - (JUNE 2016- JUNE 2019)**

Institute of Microengineering and Nanoelectronics(IMEN), Universiti Kebangsaan Malaysia, Bangi, Selangor.

- Developed and simulated filtration membrane to mimic the function of a healthy kidney, on a nanometer scale, by utilizing COMSOL, MATLAB and other MEMS tools.

#### **INTERN PROGRAMMER – (JUNE 2015 – SEPTEMBER 2015)**

Telekom Malaysia Berhad, TM, Cyberjaya, Selangor.

- Developed data dashboard software for the information security team.
- Replaced the usage of Microsoft Power Point to provide report by integrating VB.net, JS, html, CSS
- Methodologies: Waterfall

| EDUCATIONAL BACKGROUND  |  |
|---|--|
| THE NATIONAL UNIVERSITY OF MALAYSIA   |  |
| Education Level   | Master in Science  |
| Faculty (Major)   | Institute of Microengineering and Nanoelectronics (Microengineering and Nanoelectronics)   |
| Research Project  | <b>Study on Porous Nanocrystalline Silicon (pnc-Si) Membrane as Filtration Membrane</b>  |
|   | <ul style="list-style-type: none"><li>Development and simulation of a filtration membrane to mimic the function of a healthy kidney, on a nanometer scale.</li><li>Related skills: COMSOL, MATLAB, CorelDraw, Origin, MEMS Fabrication, MEMS Characterization which includes FESEM, AFM, and TEM.</li></ul>  |
| INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA   |  |
| Education Level   | First Degree in Engineering (Electronics-Computer and Information)   |
| Faculty (Major)   | Kulliyyah of Engineering (Communication Engineering)   |
| Final Year Project  | <b>Design of Automated Robust Petrol Pump Control System by Wireless Communication System</b>  |
|   | <ul style="list-style-type: none"><li>Developed an automated robust petrol pump system controlled by wireless communication to monitor sales, security and petrol quantity as well as setting the petrol price and purchase limit.</li><li>Related skills: IoT, HTML, JS, Arduino, C/C++, REST API</li></ul> |
| SKILLS STACKS   |  |
| <b>Front-End:</b> React, HTML, CSS, JavaScript, React Native, Angular   |  |
| <b>Back-End:</b> Python, Flask, PHP, Node.js, Express, C#, ASP.Net, Java(Android)   |  |
| <b>Databases:</b> MSSQL, MySQL, Firebase, MongoDB   |  |
| <b>Version Control &amp; Pipelines:</b> GitHub, GitLab, Azure DevOps, Open Shift  |  |
| <b>Data Visualization:</b> K2, SSRS, MATLAB, d3.js  |  |
| <b>Tools:</b> Microsoft Office, Visual Code, Visual Studio, SSMS, phpMyAdmin, Postman, Wordpress  |  |
| REFERENCES  |  |
| <b>MANAGER (Y.S.P. Industries):</b><br><b>JERRY LEE</b><br>IT Department Manager,<br>Y.S.P. Industries Sdn. Bhd.<br>Contact No: +60377276390<br>Email: <a href="mailto:leecc@yspsah.com">leecc@yspsah.com</a> | <b>SUPERVISOR:</b><br><b>DR. RHONIRA BT ABDUL LATIF</b><br>Institute of Microengineering and Nanoelectronics<br>(IMEN), Universiti Kebangsaan Malaysia.<br>Contact No: +60176389684<br>Email: <a href="mailto:rhonira@ukm.edu.my">rhonira@ukm.edu.my</a>   |