MUHAMMAD RAHIMAN BIN ABDULMANAB

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• itsmeray.com (Portfolio & Blog Site)

SUMMARY

An aspiring full-stack developer with a strong and broad technical acumen dedicated to lifelong learning. A proficient communicator, quick learner, and resourceful team player, I have a penchant for solving complex problems. I pursue blog writing & photography as a hobby.

WORKING EXPERIENCE

Payments Network Malaysia Sdn Bhd (PayNet) *Kuala Lumpur, Malaysia*
Engineer 1, Single Sign On (SSO), Unified Platform Portal Engineering Team *May 2024 – Present*
- **Redesigned the PayNet Single-Sign On (SSO) login and registration experience**, delivering a cleaner UI and smoother user flow.
- **Led the full modernization of SSO front-end applications** with Vite, pnpm, and TypeScript, significantly improving build performance, developer experience, and long-term maintainability.
- **Integrated LaunchDarkly and optimized its initialization in the frontend** by introducing local-storage caching with background refresh, significantly reducing page load times.
- **Led the enablement of all MFA options across login and registration flows** to enhance flexibility and user experience.
- **Implemented Single Active Session per browser for SSO frontend** to improve session reliability and prevent overlapping logins.
- **Spearheaded the UI/UX revamp of the User Profile module**, delivering a more intuitive, modern, and streamlined user experience.
- **Revamped SSO email templates** based on the new PayNet Design System to modernize communication touch points.
- **Strengthened team capability through Agile advocacy**, technical guidance, and ongoing knowledge-sharing initiatives.

Dell Technologies *Cyberjaya, Selangor, Malaysia*
Software Engineer 1, Team Member Experience (TMX) Validation & Transition COE *March 2022 – April 2024*
- **Led the front-end development team** in the Inventory Management and Lab for Loan modules as well as Nuxt 3 migration for the Validation-as-a-Service (*VaaS*) portal: A one-stop shop to leverage validation & automation intelligence service for driving better user experience, thus **automating** and **optimising hardware and software validation workflow**. (Nuxt.js 2 & 3, Vue.js 2 & 3, Fastify, Prisma, Cypress, Azure, Redis, Dell Design System)
  - **Pioneered the proof-of-concept (PoC) study** in comparing various end-to-end (E2E) testing tools (Playwright, Cypress) and **spearheaded** the **subsequent successful adoption of end-to-end (E2E) testing using Cypress**, resulting in a significant bug identification time reduction and a more robust testing and quality assurance process.
  - **Proposed** and **led the implementation** of the **repository design pattern** in the front-end for better API management and organization, thus improving the overall developer experience (DX) and code quality in terms of maintainability and readability.
- **Appointed as IT Development Program (ITDP) APJC representative** to the **Global Gen Z advisory panel** to suggest areas of improvement to the company's top leadership in addressing dissatisfaction among Gen Z employees.
- **Assisted in the talent acquisition process** by **volunteering** as a **mentor** for the Dell Digital Virtual Hack2Hire hackathon and person-in-charge (PIC) for drafting the problem statements.
  - Both teams that I mentored, *Logos* and *CodeBlue*, either got the internship/permanent job offers at Dell and/or were crowned champions, establishing a **100% mentoring success rate**.
- **Leveraged public speaking skills** by **volunteering** as an **emcee and/or speaker** for numerous events, including GRADUAN Career Fair 2022: "*How Does Dell Support Young Talents with their Career Growth*", Dell Digital Automation Day 2022 and Dell Digital Malaysia Regional Summit 2022.

Infront Consulting Group (M) Sdn. Bhd. *Petaling Jaya, Selangor, Malaysia*
Software Engineer Intern *Aug 2020 – Jan 2021*
- **Contributed** to the **national COVID-19 response and awareness initiative** through the **Asymptomatic COVID-19 Digital Solution: A Proof-of-Concept Study (CODIQ-My)** in collaboration with the Institute of Clinical Research (ICR) and Ministry of Health (KKM) by **developing a prototype** to provide doctors with real-time information on the health status of home-quarantined patients, enabling doctors to provide fast and targeted treatment plans. (Django, Azure, Internet of Medical Things (IOMT), Bootstrap CSS)
  - Covered in News Media Articles: New Strait Times (en)
- **Built** an **in-house Platform-as-a-Service (PaaS) service desk** web application to reduce cost and external vendor reliance. (Adobe XD, Django, Azure, Bootstrap CSS)

HIGHLIGHTED PROJECTS

Debug Lab Skills Learning Center [https://www.thedebuglab.com/]   *Remote*
Full-stack Developer (Freelance — Pro bono)   *Nov 2023*
- **Enhanced the design and expanded the functionalities** of the existing website in just **72 hours** to incorporate management features such as storing and searching students' learning platforms credentials and progress, managing student logbooks and centralising student birthdays (Nuxt 3, Pinia, Supabase, Tailwind CSS, Preline, Headless UI, Flowbite, FullCalendar).
  - Refer to LinkedIn post.

EduMind [https://edumind-v1.vercel.app]   *Remote*
Full-stack Developer (Freelance)   *Oct 2023*
- **Developed and deployed** a **web application** for collecting students' DASS-21 survey results and providing an online mental health educational module that allows users to attain better mental health status through its self-help content (Nuxt 3, Pinia, Supabase, Tailwind CSS, Preline, Headless UI, Flowbite).
  - Refer to LinkedIn post.

Tweets Anxiety Detection [https://tweets-anxiety-detector.vercel.app — Offline]   *Remote*
Full-stack Developer   *Feb 2023*
- **Developed and deployed** a **single-page application (SPA)** for predicting the anxiety probabilities of tweets. (Nuxt 3, FastAPI, Tailwind CSS, Flowbite).

***Fitweet*: Arduino-based Smart Watch for Early Anticipatory Anxiety Notification System** [https://fitweet.tech — Offline]   *Remote*
Full-stack Developer   *Mar 2021 – Feb 2022*
- **My Final Year Project (FYP)** proposes a novel approach to anticipatory anxiety detection for Malaysian university students aged 18 and 25 inclusive as an early notification system using AI and IoT for bilingual Malay and English tweets and vital signs analysis respectively.
- **Developed** a **web application** for managing information of Tweets analysis, body vital signs, notifications, mental health-related mobile app recommendations, real-time mental health chat support and Arduino smartwatch users. (Django, PostgreSQL, Firebase, Redis, WebRTC, Tailwind CSS, Bootstrap CSS)
- **Trained supervised conventional and deep learning models** with binary classification using a data set collected via Twitter API to predict signs of anxiety from bilingual (English and Malay) Tweets. (TensorFlow, Keras, Scikit Learn, NumPy, Pandas)
- **Presented and published the research paper** to the Lecture Notes in Electrical Engineering (LNEE) Springer book series for the Ninth International Conference on Computational Science and Technology (ICCST 2022). [Link]

FCSIT UM Survey App [https://fcsit-survey-app.herokuapp.com — Offline]   *Remote*
Full-stack Developer   *Dec 2020*
- **Developed and deployed** a simple **web application** in **less than half a day** in the middle of my internship stack to compile all survey forms for faculty courses for the usage of FCSIT UM undergraduate students only. (Django, PostgreSQL, Bootstrap CSS)

EDUCATION

Universiti Malaya   *Kuala Lumpur, Malaysia*
Bachelor of Computer Science (Software Engineering)   *Sep 2018 – Feb 2022*
- CGPA: **3.94/4.00** (First Class Honours with Distinction).
- Obtained a **4.00 GPA** for **6 out of 7 semesters**.
- Selected and sponsored participant to lead the delegation for the student mobility programme to **Prince of Songkla University**, Hat Yai, Thailand.
- Held multiple leadership roles (see Extracurricular Activities).
- Won several hackathons and competitions (see Awards & Achievements).

AWARDS & ACHIEVEMENTS

- **[International] RHB Get Your Hack 2023 Virtual Hackathon: ASEAN Edition** – Top 10 Finalist and Best Presenter at the Grand Finals (Jan 2023) [Link]
- **[National] IEEE Malaysia Final Year Project (FYP) Competition** – Champion (IET Innovation Award) and Second Runner-Up (Young Innovator Award) (Feb 2022) [Link]
- **[National] International Digital Innovation in Wellness (DInoWEx2021): Enhancing Quality of Life through Technology** – Gold Medal Winner (Young Ideation Category) (Dec 2021) [Link]
- **[National] Dell Digital Virtual Hack2Hire** – Champion (Dec 2021) [Link]

SPOKEN LANGUAGES

English, *Bahasa Melayu* **(Malay)** – Able to speak & write formally and informally.

CERTIFICATIONS

Professional Scrum Master (PSM I)	*June 2025* [Link]
Cypress End-to-End Testing – Getting Started (Udemy)	*Nov 2023* [Link]
Kubernetes for the Absolute Beginners – Hands-on (Udemy)	*Feb 2023* [Link]
Microsoft Certified: Azure Developer Associate (Microsoft)	*Oct 2022* [Link]
Microsoft Certified: Azure Data Fundamentals (Microsoft)	*Sep 2022* [Link]
Microsoft Certified: Azure AI Fundamentals (Microsoft)	*Jun 2022* [Link]
Nuxt.js 2 – Vue.js on Steroids (Udemy)	*May 2022* [Link]
Microsoft Certified: Azure Fundamentals (Microsoft)	*Aug 2021* [Link]
AWS Academy Graduate - AWS Academy Cloud Foundations (Amazon Web Services)	*Jul 2021* [Link]
Introduction to Git and GitHub (Google, Coursera)	*Jul 2020* [Link]

EXTRACURRICULAR ACTIVITIES

- **Mentor & Speaker | USM Varsity Hackathon 2023 (V Hack) 2023**   *March 2023*
  - **Mentored participants** throughout the preliminary round and played a key role in **identifying and recognising** the most innovative and impactful solutions.
  - **Delivered** the first workshop titled "Ideation & Business Thinking: Get Ready for Take-Off" with **nearly 500 participants**.
- **Mentor |** *Kitahack* **2023**   *Feb 2023*
  - **Mentored several teams** for a **maximum of 4 hours per week** by sharing my knowledge and experience with participants, providing guidance and feedback on their Solution Challenge submissions, and helping them take their ideas to the next level.
- **Student Mentor |** *UMHackathon*   *Jul 2021 – Sep 2021*
  - **Mentored 2 teams,** one of which (Gnosis) was awarded **second runner-up** in the Agriculture domain.
- **Vice President |** *Persatuan Komputer Universiti Malaya* **(PEKOM)**   *Sep 2019 – Jan 2021*
  - **Pioneered** the organisation of the first-ever **Capture the Flag introductory session** for FCSIT UM students in collaboration with *Wargames.MY*.
  - **Established** the **first Robotics Interests Group** in FCSIT UM.
  - **Mooted the idea** of forming an inter-university interaction platform for other computer science faculties across Malaysia.
- **Director |** *KinaWorks*   *Sep 2019 – Apr 2020*
  - **Initiated Createz Bootcamp 3.0,** the **first Adobe XD, AE and AI workshop** to be **fully organised by students** at Universiti Malaya in collaboration with PEKOM, UXArmy and Designloka**.**

REFERENCES

Yeoh Wee Fan (Wee_Fan_Yeoh@Dell.com) – (Reporting Manager) Director, TMX Validation & Transition COE, Dell Technologies.
Assoc. Prof. Dr. Siti Hafizah Ab Hamid (sitihafizah@um.edu.my) – (FYP Supervisor) Senior Lecturer, Faculty of Computer Science and Information Technology, Universiti Malaya.