

MUHAMMAD RAHIMAN ABDULMANAB

Kuala Lumpur, Malaysia • mdrhmn99@gmail.com • github.com/mdrhmn • linkedin.com/in/muhd-rahiman
• itsmeray.com

SUMMARY

An aspiring frontend 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 I, Single Sign On (SSO), Unified Platform Portal Engineering Team

May 2024 – Present

- **Redesigned PayNet's 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 feature flagging via 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 I, 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, 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.
- **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" and Dell Digital Malaysia Regional Summit 2022.

HIGHLIGHTED PROJECTS

EduMind [<https://edumind-v1.vercel.app>]

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](#).

Fitweet: Arduino-based Smart Watch for Early Anticipatory Anxiety Notification System [<https://fitweet.tech> — Offline]

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). [\[Link\]](#)

EDUCATION

Universiti Malaya

Bachelor of Computer Science (Software Engineering)

Kuala Lumpur, Malaysia

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**.
- 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)	<i>June 2025</i> [Link]
Cypress End-to-End Testing – Getting Started (Udemy)	<i>Nov 2023</i> [Link]
Microsoft Certified: Azure Developer Associate (Microsoft)	<i>Oct 2022</i> [Link]
Microsoft Certified: Azure Data Fundamentals (Microsoft)	<i>Sep 2022</i> [Link]
Microsoft Certified: Azure AI Fundamentals (Microsoft)	<i>Jun 2022</i> [Link]
Nuxt.js 2 – Vue.js on Steroids (Udemy)	<i>May 2022</i> [Link]
Microsoft Certified: Azure Fundamentals (Microsoft)	<i>Aug 2021</i> [Link]
AWS Academy Graduate - AWS Academy Cloud Foundations (Amazon Web Services)	<i>Jul 2021</i> [Link]
Introduction to Git and GitHub (Google, Coursera)	<i>Jul 2020</i> [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.

REFERENCES

Alex Leow (leowfg@gmail.com) – Former Manager, Senior Principal Engineer, Application Engineering, PayNet
Yeoh Wee Fan (Wee_Fan_Yeoh@Dell.com) – Former Manager, Director, TMX Validation & Transition COE, Dell Technologies.
Assoc. Prof. Dr. Siti Hafizah Ab Hamid (sitihafizah@um.edu.my) – Senior Lecturer, Faculty of Computer Science and Information Technology, Universiti Malaya.