Muhammad Aliff Fikri bin Anuar Hidayat
Bachelor of Computer Science (Computer Network) with Honours

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PROFILE

Versatile and detail-oriented IT professional with hands-on experience in web development, server management and network administration. Proven ability to maintain and optimize internal systems, develop user-centric web interfaces and ensure network infrastructure performance and stability. Recognized for strong analytical thinking, adaptability and effective problem-solving in dynamic and fast-paced environments. Seeking an opportunity to contribute to multi-faceted IT solutions and projects while continuously expanding technical expertise and professional capabilities in emerging technologies across the ICT industry.

PROFESSIONAL EXPERIENCE

PROTÉGÉ – RTW / ICT Protégé   September 2024 – Present
Melaka ICT Holdings Sdn. Bhd., Ayer Keroh, Melaka

- Managed and optimized physical and virtual server infrastructures (Debian-based) including web hosting environments for over 10 government agencies to ensure high availability, consistent uptime, SSL compliance and optimal performance.
- Developed and maintained internal PHP-based systems by integrating new UI/UX features with CSS/Bootstrap and implementing backend logic with MySQL.
- Monitored client WordPress websites by resolving theme/plugin conflicts, mitigating malware attacks and managed backend services such as Apache and MariaDB via Webmin/Virtualmin.
- Provided technical liaison and first-line support for key government clients including Melaka Hari Ini (MHI) and Majlis Perbandaran Jasin (MPJ) to provide responsive service support and timely issue resolution.
- Assisted in both ICT project planning and procurement processes by offering technical insights during site visits, drafting project charters and reports, and developing technical documentation like network diagrams and Bills of Quantities (BoQs) for clients including Putra Specialist Hospital and Universiti Islam Melaka (UNIMEL).
- Performed preventive and corrective maintenance including on-site PC servicing, PABX troubleshooting and server health checks to assure system reliability with both SLAs and operational standards.

Industrial Training / ICT Trainee   March 2024 – August 2024
Melaka ICT Holdings Sdn. Bhd., Ayer Keroh, Melaka

- Developed and maintained internal systems and databases using PHP and MySQL, contributing to enhanced workflow automation and data accessibility across departments.
- Installed, configured and troubleshot MikroTik network devices and software to improve network connectivity, bandwidth management and overall infrastructure performance.
- Monitored and tested the performance and connectivity of the company's network infrastructure for both daily operations and large-scale special events.
- Designed user-friendly and creative front-end interfaces for internal systems and client website mockups to assure responsive layouts and intuitive user experiences.
- Provided comprehensive IT support to staff and clients to resolve technical issues related to hardware, software and network services in a timely and efficient manner.
- Participated in on-site project visits to locations such as Universiti Islam Melaka (UNIMEL) and Villa D'Acqua to assist in the assessment, planning and implementation of IT solutions.

Retail Assistant / Part-Time   January 2020 – February 2020
Pasar Tani Taman Melawati, Kuala Lumpur

- Assisted an average of 25 customers each Saturdays in every weekend by delivering courteous service in a high-traffic fresh food retail environment.
- Provided fresh chicken to the customers while maintaining product quality and keeping hygiene standards.
- Improved customer service and communication skills by interacting with a diverse range of customers including regulars and walk-in patrons.
- Gained first-hand entrepreneurial experience in areas such as customer handling and service, product presentation and basic business operations.

EDUCATION

Bachelor of Computer Science (Computer Network) with Honours   October 2020 – December 2024
Universiti Putra Malaysia, Serdang, Selangor
Cumulative GPA: 3.922/4.000
Final Year Project: NetWorked!: A Gamified E-Learning Mobile Application for Internetworking Course
- Developed an e-learning Android mobile game application using Unity Engine to educate internetworking fundamentals, focusing on the five layers of the TCP/IP model by integrating gamification elements, designed assets with Adobe Illustrator, implemented mechanics in C#, built levels with Tiled Map Editor and managed the database using SQLite.

Foundation Studies for Agricultural Science   June 2019 – August 2020
Universiti Putra Malaysia, Serdang, Selangor
Cumulative GPA: 3.375/4.000

TECHNICAL PROJECTS

Paws & Preference Web App   August 2025
- **Tech:** HTML, CSS, JavaScript, Hammer.js, GitHub Pages, CATAAS API
- **Live Demo:** alifffikri2404.github.io/PawsPreferences/
- Developed swipe-based JavaScript web app inspired by dating apps where users can like and dislike cat images fetched from the CATAAS API and provides a summary screen of user preferences and mobile optimization.

MICTH Internal System   March 2024 – August 2025
- **Tech:** PHP, HTML, CSS, Bootstrap, MySQL/MariaDB, JavaScript, Apache
- Developed and maintained internal PHP-based systems for MICTH usage which include Booking System, Letter System, Outstation System, Asset System and Single Sign-On (SSO) page by integrating new UI/UX features and components, backend logic and database functionalities.

NetWorked!: A Gamified E-Learning Mobile Application (FYP Project)   March 2023 – December 2024
- **Tech:** Unity Engine, C#, SQLite, Adobe Illustrator, Tiled Map Editor, DB Browser
- Developed an e-learning Android mobile game application to educate computer science students about the foundation or basic of network syllabus, with a specific focus on the five layers of the TCP/IP model.
- Achieved Third Prize in Mobile Apps: Professional Category and Gold Prize at the IMU International Learning Resources Festival (iLRF24) e-Inovasi Competition 2024 for innovation in educational technology.

6th APAC HPC-AI Competition: MPAS Atmosphere and BLOOM AI   August 2023 – February 2024
- **Tech:** Bash, MPAS Atmosphere, Python, BLOOM, PBS (HPC), Gadi Supercomputer (NCI)
- Led HPC benchmarking for a large-scale climate model (MPAS) by developing Bash scripts to observe simulation speed and execution time, to identify optimal performance across increasing CPU nodes.
- Conducted AI resource analysis for a BLOOM large language model by developing Python scripts to measure GPU memory utilization and tokenization latency, to determine the most efficient batch sizes for inference.
- Received Meritorious Award in the competition for excellence in cross-domain performance analysis.

Electricity Rate Calculator   December 2023
- **Tech:** PHP Vanilla, CSS
- Developed a simple PHP program that calculates electricity rates per hour and per day based on user input of voltage (V), current (A) and current rates from TNB's Tariff Rates.

DoClean! Mobile Application   December 2022 – January 2023
- **Tech:** Flutter, Dart, Firebase
- Developed a full-stack Flutter mobile app integrated with Firebase backend to connect users with housekeeping services by featuring real-time booking status and user-friendly UI for housekeeping solutions.

Healthy Snake Game   June 2022 – October 2022
- **Tech:** C++
- Developed an educational game that modernizes the classic 'snake' mechanics to raise awareness about healthy eating habits among children using C++ program.
- Awarded Best Video for the E-Poster Presentation at the Ihsan Junior Researchers International Conference (iJURECON) 2022.

RansomWhere?   November 2021 – February 2022
- **Tech:** Unity Engine, C#, SQLite, Justinmind
- Developed an Android mobile game application to educate and raise awareness about ransomware and cyberattack among HILTI's employees through an engaging and single-player social party game format.
- Reached Semi-Finalist status (Top 19 of 201 teams) in the Hilti IT Competition 2022.

ACHIEVEMENTS

- **Third Prize in Mobile Apps: Professional Category & Gold Prize**
  IMU International Learning Resources Festival (iLRF24) e-Inovasi Competition 2024
  International Medical University, 2024
- **Meritorious Recognition Award**
  6th APAC HPC-AI Competition 2023
  HPC-AI Advisory Council, NSCC Singapore & NCI Australia, 2024
- **Best Video of the E-Poster Presentation**
  Ihsan Junior Researchers International Conference (iJURECON) 2022
  Universiti Sains Islam Malaysia, 2022
- **Semi-Finalist**
  Hilti IT Competition 2022
  Hilti IT Asia, 2022

SKILLS & LANGUAGES

- **Programming Languages:** PHP, Python, C++, C#, JavaScript, Dart
- **Databases:** MySQL, SQLite, MariaDB, Firebase
- **Web & Application Development:** HTML, CSS, WordPress, Bootstrap, Unity Engine, UI/UX Design
- **Server & Infrastructure:** Linux (Ubuntu & Debian), Webmin/Virtualmin, Apache, Windows Server
- **Soft Skills:** Communication, Detail-Oriented, Adaptability, Teamwork, Time Management
- **Languages:** Malay (Native), English (Intermediate), Mandarin (Basic), German (Basic)

CERTIFICATES

- **Certificate of Appreciation – Secretariat**
  Smart Melaka International Conference and Exhibition 2024 (SMIX2024)
  Kerajaan Negeri Melaka & Melaka ICT Holdings Sdn. Bhd., 2024
- **Certificate of Participant**
  Final Year Student Project Ideas and Innovation Exhibition (I-IDEA) 2023
  Universiti Putra Malaysia, 2023
- **Certificate of Attendance**
  Advanced Web Hacking & Defense
  Condition Zebra (M) Sdn. Bhd., 2017

REFERENCES

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