MUHAMMAD IRFAN HAKIMI BIN YAHYA

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PROFESSIONAL SUMMARY

Analytical and detail-driven software engineering candidate with hands-on experience in system development, mobile app development, API integration, and large-scale transaction analysis within financial technology environments. Proven ability to analyze complex technical issues, automate reporting workflows, and synthesize multi-source data into clear, actionable insights for stakeholders. Skilled in PHP (CodeIgniter), Java, Python, React Native, Firebase, and SQL, with experience collaborating across engineering and product teams to deliver impactful solutions. Highly adaptable and proactive, with strong communication, stakeholder management, and leadership skills, and a growing interest in banking technology, cloud engineering, and software innovation.

AREAS OF EXPERTISE

System Development	Workflow Automation
API Integration	Database Management
Python Automation	Project Management (Agile)
Data Analysis	Mobile App Development

EDUCATION BACKGROUND

Bachelor of Computer Science (Software Engineering)
Universiti Malaysia Terengganu
Expected Graduation: October 2026
- Dean's List: - Semester 2 (GPA 3.67),
  - Semester 3 (GPA 3.72),
  - Semester 5 (GPA 3.53),
  - Semester 6 (GPA 3.58)
- Current CGPA: 3.53
- Relevant Coursework Domains: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering & Project Management, Software Testing & Quality Assurance, System Analysis & Design, Database Systems, Web Development, Intelligent Systems / IoT, Statistics & Data Analysis, Cybersecurity Fundamentals

Foundation in Science, Technology, Engineering, and Mathematics (STEM)
Universiti Malaysia Terengganu, 2021
- CGPA: 3.75 (Dean list every semester)

EXPERIENCE

Automation and Data Engineer (Internship)
Payments Network Malaysia (PayNet) | August 2025 – Present
- Gathered, validated, and synthesized data from multiple operational systems, improving reporting accuracy and reliability.
- Performed data validation and reconciliation across multiple platforms, including AWS Quicksight, Grafana, and Excel, ensuring accuracy of investment and operational datasets.
- Built and automated data collection and processing workflows for transformation and reporting tasks using Python, Boto3, and AWS Lambda, improving efficiency and reducing manual errors.
- Developed and executed SQL queries in AWS Athena for data retrieval, analysis, and anomaly detection.
- Created dashboards and periodic statistical reports for operational reviews, highlighting data outliers and system discrepancies, and implemented automation algorithms to alert these outliers through Teams.
- Contributed to process documentation and pipeline optimization to improve the scalability and transparency of data operations.
- Developed a proof-of-concept mobile application integrating with the National Addressing Database API to access DuitNow ID and Soundbox functionalities, including dynamic QR codes, multilingual notifications, and real-time transaction monitoring.

System Developer - International Centre Management System (2024)
Universiti Malaysia Terengganu • Collaboration with Pusat Ekosistem Digital
- Developed a centralized platform to manage international student and staff records, covering visa, passport, and insurance data.
- Implemented an automated workflow for travel abroad applications, enabling staff to submit requests and track approval statuses digitally.
- Conducted requirements gathering with the International Centre to align system features with operational processes.
- Prepared technical documentation and delivered system demonstrations to administrative stakeholders.

PROJECTS AND PRACTICAL EXPERIENCE

PayNet Mobile Application (NAD & Soundbox)

• Built an Expo React Native app integrated with PayNet's UAT APIs to enquire, activate, modify, suspend, and transfer DuitNow IDs via the National Addressing Database.

• Implemented a software-based Soundbox feature for real-time transaction voice alerts and analytics without requiring physical hardware.

• Fixed API, UI, and network issues while collaborating with senior engineers to ensure production-grade performance.

International Centre Management System (UMT)

• Developed a full-stack system (PHP, CodeIgniter 3) to manage international staff/student data, visa records, and document uploads.

• Built automated Travel Abroad Application workflows with multi-level approvals, email notifications, and visa-expiry reminders.

• Delivered dashboards with graphs for population and visa analytics, completed independently under Pusat Ekosistem Digital UMT.

Bus Management System

• Built front-end, backend, and database modules (Java, MySQL) for ticketing, routes, reviews, and role-based logins (Admin, Driver, Passenger).

• Implemented a seat availability system, booking history, review filtering, and an admin–passenger chat feature.

• Contributed as full-stack developer in a group project.

Recipe Recommendation System

• Created a recipe platform with weather-based food suggestions and nutrition data via eDamam API.

• Integrated Google Weather and Maps APIs to recommend dishes and nearby restaurants serving them.

• Designed both UI and backend logic for personalized recommendations.

CERTIFICATIONS

- Social Engineering & Phishing In The Age Of AI
- Petronas BeDigital Bootcamp
- K-Youth Development Programme (Digital and Technology)
- Cybersecurity Fundamentals – IBM
- Artificial Intelligence Fundamentals - IBM
- Cloud Computing Fundamentals - IBM
- Information Technology Fundamentals - IBM
- Data Analysis Using Python - IBM
- Information Technology Fundamentals Certification - Oxbridge Institute of Professional Development

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LANGUAGES , SKILLS AND COMPETENCIES

- Proficient Languages: English, Malay
- Programming Languages: Java, Python, PHP (CodeIgniter), SQL, React Native
- Skills: Mobile App Development, System Development, API Integration, Python Automation, Data Analysis, Workflow Automation, Project Management (Agile)
- Software and Frameworks: Firebase, AWS (Lambda, Athena, Boto3), Grafana, Excel, Jira, Confluence, React Native Expo

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SOFT SKILLS

- Strong analytical skills in problem-solving and decision-making
- Effective communication and collaboration with diverse stakeholders
- Adaptability in fast-paced and dynamic environments
- Leadership and teamwork in managing projects and teams

REFERENCES

Zaki Iskandar bin Zakaria
 Director Engineer, Payments Network Malaysia (PayNet)
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