TUAN KHALIDAH SYAZWANA BINTI TUAN MOHD KASMAWI

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EDUCATION

Tun Hussein Onn University of Malaysia   Johor, Malaysia
Bachelor of Computer Science (Software Engineering) with Honours; CPA: 3.38   **October 2022 – current**
Pahang Matriculation College   Pahang, Malaysia
Science Stream (Physical Science); GPA: 3.63   **October 2021 – July 2022**
SMK Agama Dato' Haji Abbas   Terengganu, Malaysia
Malaysian Certificate of Education (SPM); 7A 3B 1C   **January 2019 – February 2021**

SKILLS SUMMARY

- **Languages**: Python, SQL, Java, JavaScript, C, C++, HTML, CSS, PHP, R, XML
- **Frameworks & Libraries**: Pandas, Bootstrap, Laravel
- **Tools & Technologies**: Excel, PowerPoint, Git, GitHub, Laragon, Firebase, MySQL, XAMPP
- **Platforms & IDEs**: Visual Studio Code, IntelliJ IDEA, Android Studio, RStudio, DEV C++, Linux
- **Soft Skills**: Communication, Problem-Solving, Teamwork, Adaptability, Time Management, Critical Thinking, Leadership, Creativity

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PROJECTS

GlowGuide Mobile Application   **October 2024 - Current**
- Developed a mobile application integrating both e-commerce features and online consultation booking for treatment services.
- Built a web-based admin panel using the Laravel framework for managing users, products, and bookings.
- Currently developing the mobile app using Java in Android Studio, focusing on a user-friendly interface and real-time data sync.

Image-Based Detection of Rice Leaf Diseases Using Deep CNN Models | Group Project   **June 2025**
- Implemented deep convolutional neural network (CNN) models to classify and detect rice leaf diseases from image data.
- Applied image preprocessing, training, and evaluation to develop an automated disease detection system with high accuracy.

Predicting Diabetes with Classification Algorithm | Group Project   **May 2025**
- Built a predictive model using classification algorithms like Random Forest, Logistic Regression, and K-Nearest Neighbors (KNN) on a diabetes dataset.
- Applied data preprocessing, feature selection, and model evaluation techniques to improve prediction accuracy.

Evaluating Shortest Path Solutions | Group Project   **April 2025**
- Analyzed and compared various shortest path algorithms such as Dijkstra's, Breadth First Search and Depth First Search for performance and efficiency.
- Evaluated algorithmic complexity and accuracy across different graph structures and datasets.

Analyzing Air Quality And Health Impact In India | Group Project   **January 2025**
- Used Power BI and DAX formulas to analyze and visualize air quality data.
- Applied various analytics methods (descriptive to prescriptive) to assess health implications.

E-KOOP Inventory Web Based System | Group Project   **July 2024**
- Developed a web-based system to track and manage inventory, including product details, stock levels, and reorder points, for efficient inventory control.
- Utilized a relational database to store and manage data, ensuring accurate records and seamless updates for products, suppliers, and transactions.

Tic-Tac-Toe Game App | Group Project   **June 2024**
- Built an interactive Tic Tac Toe game using Java in Visual Studio Code.
- Implemented game logic and GUI components for a functional user experience.

H2OTrack – Smart Resizable Bottle Ring | Group Project   **June 2024**
- Designed an innovative smart bottle accessory prototype using Figma.
- Focused on sustainable hydration tracking through a resizable tech ring.

Small Office Home Office (SOHO) Network Design With Guest Network & A Campus Network   **June 2024**
Design For A College | Group Project
- o Designed a secure and efficient network for small offices or home offices, including a guest network for visitors to ensure security and privacy for internal resources.
- o Developed a comprehensive campus-wide network for a college, focusing on scalability, security, and connectivity to support academic, administrative, and guest services across the campus.

Scripting Programming & Simple Messaging Between Server And Client(S) In Virtual   **January 2024**
Machine | Group Project
- o Executed server-client messaging and backup operations in a virtual environment using Kali Linux and Ubuntu.
- o Demonstrated basic scripting and communication protocols within virtual machines.

Laundry Management System | Group Project   **January 2024**
- o Designed a prototype interface for a laundry service system using Canva.
- o Focused on user requirements gathering and system visualization.

EzBook Application | Group Project   **January 2024**
- o Created a user-centered prototype for a booking application using Figma.
- o Applied HCI principles to enhance interface usability and design.

Employee Payroll System | Group Project   **January 2024**
- o Developed a system to calculate and manage employee salaries, including deductions, bonuses, and tax calculations.
- o Utilized OOP principles like classes, inheritance, and polymorphism to create a modular, scalable, and maintainable payroll system for handling employee data and payroll functions.

Depth First Search* (Graph: Map Coloring) | Group Project   **December 2023**
- o Utilized Depth First Search (DFS) to traverse and color the regions of a map (represented as a graph) such that no two adjacent regions share the same color.
- o Demonstrated concepts from graph theory, particularly node adjacency and traversal algorithms, to solve the classic map coloring problem effectively.

Network Setting In Virtual Machine | Group Project   **October 2023**
- o Configured a virtual network environment using Oracle VirtualBox and Ubuntu OS.
- o Applied key concepts of OS structure and demonstrated essential skills in virtual machine operations.

Bridal Management System | Group Project   **June 2023**
- o Presented a structured approach to bridal service management system development without implementation.
- o Gained experience in applying theoretical software engineering principles to real-world project planning and documentation.

Study The Effectiveness Of Online Teaching Among Students | Group Project   **June 2023**
- o Collected primary data via questionnaires to evaluate online teaching efficiency.
- o Analyzed the data using SPSS software to draw meaningful conclusions.

Algebra: Real Life Applications | Group Project   **January 2023**
- o Explored real-world applications of algebraic methods.
- o Implemented solutions using C programming to demonstrate mathematical models in practical scenarios.
- o Strengthened analytical thinking by connecting mathematical concepts to real-life economic and business problems.

Car Parking Services | Group Project   **January 2023**
- o Developed a C program using DEV C++ to calculate parking hours and corresponding charges.
- o Designed and tested the application to ensure accurate output based on user input.

CERTIFICATES

Data Mining and Decision Making: Predictive Analytics for Business Strategies | CERTIFICATE   **May 2025**
- o Applied predictive modeling techniques to support data-driven business decisions.
- o Utilized tools and methods such as regression, classification, and decision trees to extract actionable insights from data.

Data Structures & Algorithms in Python: Sorting Algorithms | CERTIFICATE   **May 2025**
- o Implemented and analyzed sorting algorithms such as Bubble Sort, Merge Sort, and Quick Sort using Python.
- o Evaluated time and space complexity to compare algorithmic performance in various scenarios.

Power BI Data Modelling Basics Tutorial Course | CERTIFICATE   **November 2024**
- o Understand data relationships, hierarchies, and schema design.
- o Learn DAX formulas for calculations and optimizing data models.

Power BI for Beginners | CERTIFICATE   **November 2024**
- o Introduction to Power BI, including data visualization and dashboard creation.
- o Learn how to import, clean, and transform data for reporting.

SAS Visual Analytics 1 for SAS Viya: Basics | CERTIFICATE   **November 2024**
- o Learned to create interactive reports and dashboards using SAS Visual Analytics.
- o Developed skills in data preparation, visualization techniques, and interpreting analytical insights.

SAS Viya Overview | CERTIFICATE   **November 2024**
- o Gained foundational knowledge of the SAS Viya platform, including its architecture, capabilities, and integration features.
- o Explored cloud-native analytics tools for data processing, visualization, and model deployment.

CCNA: Introduction to Networks (Cisco) | [CERTIFICATE](#)   **August 2024**
- o Gained foundational knowledge of networking concepts, including IP addressing, Ethernet, and network protocols.
- o Learned to configure and troubleshoot basic network devices to establish secure and reliable network connections.

PARTICIPATION

i.	Seminar Pemuliharaan Senibina Warisan 2024	August 2024
ii.	Majlis Anugerah Dekan Fsktm	June 2024
iii.	Konvensyen Intelek Madani: Belanjawan 2025 (AJK Media)	April 2024
iv.	Taklimat Pengetua Kkdk	May 2023
v.	Program Nuzul Quran Dan Ghazwah Badar Al Kubra	April 2023
vi.	Townhall Jawatankuasa Pemilihan Majlis Perwakilan Pelajar (JPMPP) UTHM Sesi 2022/2023	December 2022
vii.	Sport And Games Challenge: Bola Baling	
viii.	Sihat Santai: Konda Kondi (Naib Pengerusi)	February 2022
ix.	Bicara @ Muzium: Sungai Lembing Sebagai Muzium Hidup-Menuju Pengiktirafan Sebagai Tapak Warisan Dunia (UNESCO)	February 2022 September 2021

REFERENCES

Dr. Mohd Hamdi Irwan Bin Hamzah
DS13 Senior Lecturer
Faculty of Computer Science and Information Technology, UTHM
Phone: 012-481 6462
Email: hamdi@uthm.edu.my
Note: He was the supervisor for my final year project, titled GlowGuide Mobile Application.

Dr. Noor Zuraidin Bin Mohd Safar
DS13 Senior Lecturer
Faculty of Computer Science and Information Technology, UTHM
Phone: 013-744 0355
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Note: He was my academic supervisor throughout my degree program.