



MUHAMMAD NUR AKMAL BIN MOHAMAD RAZIF

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SUMMARY

Enthusiastic and highly motivated Computer Science graduate with a solid foundation in software engineering, web development, and artificial intelligence. Skilled in designing and developing robust software solutions, including dynamic web applications and AI-driven models for data analysis and decision-making. Proficient in a range of programming languages and tools, with hands-on experience in creating machine learning models, data-driven applications, and scalable web platforms. Eager to leverage my skills in a dynamic role as a Software Engineer, Web Developer, Python Developer, Data Scientist, or AI Engineer, starting September 2024.

EDUCATION

UNIVERSITI KEBANGSAAN MALAYSIA Bachelor of Computer Science with Honors CGPA: 3.78	October 2020 – August 2024
KOLEJ MATRIKULASI PERAK Science Stream CGPA: 3.67	May 2019 – May 2020

WORK EXPERIENCES

Web Developer Freelance	August 2023 - Present
<ul style="list-style-type: none">Built the Break Ring Tracker web application using Streamlit to monitor and analyze break ring data, allowing users to upload Excel files, process data, apply filters, and visualize results.Developed and implemented the DinamikaTVET journal system using Open Journal Systems (OJS), a robust platform for managing and publishing scholarly journals.Developed a static website for the Malaysian International Studies Association (MyISA), including implementing a member login system.	
Research Assistant (Computer Vision) Aerospace Malaysia Innovation Centre (AMIC)	September 2023 – January 2024
<ul style="list-style-type: none">Developed an aircraft part identification model with OS2D architecture, improving accuracy by 50-65% and achieving a detection time of approximately 10 seconds.Engineered a pathfinder algorithm for aircraft parts, enhancing spray gun efficiency in high-mix, low-volume scenarios, optimizing paint use, and reducing waste for cost-effectiveness.Combined part identification and pathfinding algorithms into PathGen, guiding the UR10 robot for precise spraying. This integration streamlined the process and enhanced operational efficiency.Conducted comprehensive tests on Cognex ViDi Deep Learning software, evaluating its precision in extracting bounding box coordinates and detection results.	

PROJECTS

Rubber Tree Leaf Diseases Detection Based on Deep Learning Techniques

March 2023 – July 2023

- Developed the Getahpedia app with Flutter, Dart, and a tuned ResNet50 model in TensorFlow, achieving 90% - 100% accuracy in rubber leaf disease detection.
- Enhanced user experience with comprehensive disease information, including types, countermeasures, and symptoms, creating an informative platform for users.

Cookbook Management System

October 2022 – January 2023

- Built the system using web-based technologies, utilizing HTML, CSS, JavaScript, Bootstrap, and jQuery to create a responsive and interactive user interface.
- Enhanced the system with a user-based management feature, integrating CRUD (Create, Read, Update, Delete) operations to allow users to manage recipes effectively.

Cookbook Shop

October 2021 – January 2022

- Developed a desktop application for cookbook management using Visual Basic.NET and MySQL, enabling customers to browse, order cookbooks, and receive automatically generated invoices.
- Implemented staff management features that allow staff to view detailed order reports and manage customer orders efficiently.

Web Scraping on Mudah.my

November 2022 – December 2022

- Developed a web scraping script to extract detailed car listings from Mudah.my using BeautifulSoup, including information such as name, model, year, price, and manufacturer details.
- Successfully scraped and organized the data into a CSV file for further analysis, enhancing data accessibility and usability for market research and business insights.

Twitter Data Analysis: Trend Visualization and Sentiment Analysis

June 2022 – July 2022

- Developed an advanced Twitter data analysis tool utilizing Twint for efficient extraction of tweets. The tool incorporates comprehensive preprocessing tasks such as URL, digit, and stopword removal.
- Visualized tweet data with word clouds using Pandas, NLTK, and WordCloud libraries for trend identification.
- Executed sentiment analysis on the collected tweets and created visual representations of the sentiment data.

CO-CURRICULAR ACTIVITIES

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| • Entrepreneurship Award & Popular Video Award, Karnival Industri Digital FTSM | August 2023 |
| • Third Place, Band Competition, Inter College Arts Festival | July 2023 |
| • Silver Award in Pertandingan Pengaturcaraan Komputer 2022 | August 2022 |
| • Program Director, Online Webinar Strategies to Obtain Gold Medals in UKM | December 2021 |
| • Co-Curriculum Award, Majlis Apresiasi Mahasiswa FTSM | February 2021 |
| • President, Video Innovation Club (VIC), Fakulti Teknologi dan Sains Maklumat | October 2021 - August 2022 |

SKILLS

- **Programming Languages:** Python, Java, C, C++, HTML, CSS, MySQL, JavaScript, PHP, Tailwind CSS
- **Frameworks:** Flutter, ReactJS, Streamlit
- **ML/DL:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, OpenCV, Keras, Tkinter, NLTK
- **Software Tools:** MS Excel, MS Word, MS PowerPoint, MS Access, Tableau, Figma, Git, GitHub
- **Robotics:** Arduino, Universal Robot

REFERENCES

Ts. Dr. Nor Samsiah binti Sani
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