



# MUHAMMAD NUR AKMAL BIN MOHAMAD RAZIF

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Motivated programmer with a strong background in web, mobile application, and AI development. Experienced in building dynamic applications, AI models, and scalable solutions. Proficient in various programming languages and tools, with hands-on experience in machine learning. Available to contribute to a dynamic team from May 2025.

## EDUCATIONS

### Universiti Kebangsaan Malaysia (UKM)

October 2020 – August 2024

Bachelor of Computer Science with Honors

CGPA: 3.78

### Kolej Matrikulasi Perak (KMPk)

May 2019 – May 2020

Physical Science Stream (Computer Science)

CGPA: 3.67

## WORK EXPERIENCES

### Full Stack Developer

October 2024 - Present

Crescita Technology (M) Sdn Bhd, Cyberjaya

- Developed and maintained real-time sensor monitoring and management systems, enabling 24/7 live updates and improving operational efficiency by simplifying sensor data monitoring and management.
- Designed and implemented automated Node-RED flows for seamless sensor data acquisition, reducing manual intervention and enhancing operational efficiency.
- Managed the deployment and maintenance of web applications on Internet Information Services (IIS) running on Windows Server.

### Web Developer

August 2023 – Present

Freelance

- Collaborated with clients to understand project requirements, delivering customized solutions that improved user experience and functionality, while managing full-stack development from concept to deployment.
- Developed and maintained responsive websites and web applications, ensuring cross-browser compatibility and mobile optimization for diverse clients.

### Research Assistant (Computer Vision)

September 2023 – January 2024

Aerospace Malaysia Innovation Centre (AMIC), Kajang

- Conducted research on aircraft part identification and pathfinding challenges, analysing existing solutions to inform the development of optimized algorithms for improved accuracy and efficiency.
- Developed an aircraft part ID model with OS2D, increasing accuracy by 50% to 65% and reducing detection time to 10 seconds. Created a pathfinding algorithm to optimize spray efficiency and integrated both to guide a UR10 robot for precise spraying.

## PROJECTS

### Mushroom Grow House Monitoring and Management System | Python, Django, PostgreSQL, MongoDB, Node-RED, Redis

- Developed and deployed a real-time dashboard to monitor sensor data for mushroom grow houses, providing insights into environmental conditions and enabling proactive management.
- Designed and implemented Node-RED flows for hourly sensor data acquisition and automated environmental control systems.

### Reservoir Monitoring and Management System | Python, Django, PostgreSQL, MongoDB, Node-RED, Redis

- Developed and deployed a real-time dashboard for monitoring reservoir conditions, providing insights, early issue detection, and maintenance prioritization.
- Designed and implemented Node-RED flows for sensor data acquisition and automation, controlling valve operations based on real-time data.

### Indeks Tadbir Urus Koperasi | Flutter, Dart, Supabase

- Built a cross-platform mobile application enabling cooperative organizations to conduct structured surveys on their management systems, with an integrated scoring system for performance evaluation.

### Cookbook Shop Management System | HTML, CSS, JavaScript, PHP, MySQL

- Designed a responsive website with a user management system, enabling CRUD operations for managing cookbooks.
- Implemented a streamlined ordering system for efficient cookbook requests and management.

### Getahpedia Mobile Application | Flutter, Dart, TensorFlow, Python

- Built a cross-platform mobile application with Flutter, Dart and a tuned ResNet50 model for rubber leaf disease detection, providing comprehensive disease information to enhance user experience.

## SKILLS

**Programming Languages** : Python, Java, C, C++, HTML, CSS, MySQL, JavaScript, PHP, Dart

**Frameworks** : Flutter, ReactJS, Streamlit, Bootstrap, Django, Tailwind CSS, React Native

**Databases** : PostgreSQL, MongoDB, MySQL, Supabase

**Machine Learning** : Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, OpenCV, Keras, BeautifulSoup

**Software Tools** : MS Excel, MS Word, MS PowerPoint, MS Access, Tableau, Figma, Trello

**Version Control** : Git, GitHub