Nursyasya Aina binti Abdul Hamid

✉ nursyasya.aina03@gmail.com   in linkedin.com/in/nursyasya-aina

 github.com/syasy00   🌐 My Portfolio

📞 +601110941331   📍 Perlis, Malaysia

Summary

Dedicated Final Year Computer Science student (CGPA: 3.82) from Universiti Utara Malaysia (UUM) with a focus on Software Engineering, Mobile/Web Development, Data Analytics, and Machine Learning. Developed SmartShell, an IoT-based system integrated with a cross-platform mobile application. Skilled in Python, Java, Flutter, and UI/UX design. Currently seeking a 6-month Software Engineering internship (April 1 – September 30, 2026).

Education

- **Bachelor of Computer Science (Human Centered Computing)**   2022-2026
  Universiti Utara Malaysia   *Sintok, Kedah*
    - CGPA: 3.82/4.00

- **Matriculation in Pure Science**   2021-2022
  Matriculation College Perlis   *Arau, Perlis*
    - CGPA: 3.79/4.00

Skills

Languages: Python, Java, Dart, C++ (Arduino), PHP, SQL, JavaScript, HTML/CSS
Frameworks: Flutter, React.js, Streamlit, OpenCV, Pandas, Scikit-learn
Others: Git, Docker, Firebase, Power BI, Figma, JIRA, ESP32/Arduino, SPSS
Soft Skills: Team Collaboration, Public Speaking, Technical Writing, Project Management

Certifications

- **Introduction to Artificial Intelligence (AI)**   2024
  IBM & Coursera
    - Explored machine learning workflows, neural networks, and AI ethics with a focus on real-world application.

- **CCNAv7: Introduction to Networks**   2023
  Cisco Networking Academy
    - Configured network topologies and analyzed IPv4/IPv6 addressing schemes using *Cisco Packet Tracer*.

Projects

- **SmartShell: Turtle Nest Monitoring System** ⚙   2025

    - Developed an IoT system with ESP32, DHT22 sensor, and relay modules to monitor and control turtle nest environments.

    - Built a Flutter mobile app integrated with Firebase for real-time temperature and humidity monitoring.

    - *Tech Stack: Arduino, Dart, Flutter, Firebase.*

- **SmartEcoRain: Rainwater & Tank Monitoring** ⚙ 2025
  - Developed an IoT system for automating rainwater collection and tank-level monitoring.
  - Built a real-time dashboard and remote pump control interface using *Flutter* and *Arduino (ESP32)*.
  - Tech stack: *Dart, Arduino, Flutter, MySQL, PHP, Fritzing.*

- **Malaysia Foreign Arrival Dashboard** ⚙ 2024
  - Designed an interactive dashboard to visualize Malaysia's foreign arrival trends (2020–2023).
  - Developed data visualizations and forecasting models using *Streamlit* and *Python.*
  - Integrated historical data analysis and predictive modeling for travel trend forecasting.
  - *Tech Stack: Python, Streamlit, Pandas, Scikit-learn, Matplotlib, Seaborn.*

- **Virtual Mouse Using Hand Gesture Recognition** ⚙ 2024
  - Developed a computer vision system enabling mouse control via webcam-captured hand gestures.
  - Integrated *MediaPipe*, *OpenCV*, and *PyAutoGUI* to detect hand landmarks and implement gesture-based commands (cursor movement, clicks, scroll).
  - Designed robust gesture recognition for intuitive and touchless user interaction.
  - *Tech Stack: Python, MediaPipe, OpenCV, PyAutoGUI.*

Extracurricular

- **Lab Associate** 2023 – Present
  MCMC-UUM Makerspace, School of Computing
  - Actively participated in technical workshops and innovation projects within the Makerspace community.
  - Collaborated with peers on IoT and software development initiatives using lab resources.

- **Knowledge Sharing: AI & IoT (UUM Global Outreach)** 2025
  Digital Innovation Camp, Rajamangala University *Thailand*
  - Represented UUM as a speaker, presenting on IoT and the development of **SmartShell**, an IoT-based environmental monitoring project.

- **Design Dash: The 24-Hour UI/UX Quest with CDX Bank Islam** 2024
  Universiti Utara Malaysia (UUM)
  - Participated in a 24-hour UI/UX design hackathon, focusing on rapid prototyping and user-centered design strategies.

References

- **Suwannit Chareen Chit a/l Sop Chit** 📞 04-9284915
  Senior Lecturer, School of Computing ✉ chareen@uum.edu.my

- **Prof. Madya. Dr. Massudi Mahmuddin** 📞 04-9285300
  Associate Professor, School of Computing ✉ ady@uum.edu.my