

# Nursyasya Aina binti Abdul Hamid

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🌐 My Portfolio

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## 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 Software Engineering internship.

## Education

- **Bachelor of Computer Science (Human Centered Computing)** 2022-2026  
*Universiti Utara Malaysia*
  - CGPA: 3.82/4.00
- **Matriculation in Pure Science** 2021-2022  
*Matriculation College 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

**Tools & IoT:** Git, Docker, Firebase, Power BI, Figma, JIRA, ESP32/Arduino

**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

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- **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

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- **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