



# SUBAASHINI MOHANASUNDARAM

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## SUMMARY

Actively seeking an internship opportunity and eager to learn and bring fresh ideas to give the best for the industry and community. A highly motivated final-year Bachelor of Software Engineering student at Universiti Selangor with a strong passion for Artificial Intelligence (AI) and Software Development. Experienced in developing AI-driven solutions and data-driven dashboards.

## EDUCATION

**Bachelor of Computer Science (Software Engineering) with Honours** **NOV 2023-Present**

- Universiti Selangor (UNISEL)
- CGPA: 3.70
- FYP on AI Driven Intelligent Monitoring Dashboard for Badminton Injury Predictions

**Foundation In Information Technology** **NOV 2022 - NOV 2023**

- Universiti Selangor (UNISEL)

## PROJECTS

### AI Driven Intelligent Monitoring Dashboard for Badminton Injury Predictions (FYP)

- Developed an AI-powered web-based system to monitor and predict badminton injuries using real-time pose estimation and machine learning.
- Integrated TensorFlow.js with MediaPipe (MoveNet) for real-time analysis and prediction of injury risks based on player posture and movement.
- Designed athlete and coach dashboards for injury risk analysis, personalized recommendations, and training history tracking.
- Tech Stack: ReactJS, TailwindCSS, Node.js, TensorFlow.js and MySQL

### AI Rainwater Harvesting Optimizer | JomHack VarsityHack 2025

- Developed a smart dashboard system to optimize rainwater harvesting using weather APIs and historical rainfall data.
- Provided personalized tank size recommendations and ROI estimation for different Malaysian states.
- Integrated OpenWeatherMap API for real-time forecasts and CSV datasets for state-based calculations.
- Tech Stack: React.js, Node.js, Express.js, Recharts, OpenWeatherMap API
- GITHUB : <https://github.com/Subaashini27/rainwater-harvesting-calculator>

### Waqf-Sukuk Platform| UM Hackathon 2025

- Developed a Shariah-compliant, AI-assisted microfinancing platform that combines Waqf-Sukuk principles with Qard Hassan (interest-free lending).
- The system uses a lightweight machine learning model to assess borrower risk and simulate blockchain-style transparency using fund flow tracking.
- Tech Stack: React.js, Material UI, Mock AI/ML logic
- GITHUB : <https://github.com/Subaashini27/waqf-sukuk-platform>

## EXTRA -CURRICULAR ACTIVITIES &AWARDS

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- May 2025 | Gold Award in International Virtual Competition of Creative & Innovative Idea (IVCCII)
- April 2025 | Champion Engineering Innovative Design Competition ( Enginnovate )2025
- March 2025 | Silver award in INNOVEX 2025
- February 2025 | Silver Award in International Innovation & Exhibition Fair 2025 Kolej Mara Kulim
- April 2025 | Participant in JomHack Varsity Challenge 2025( 48 hour Virtual Hackathon)
- March 2025 | Solo Participant in Varsity Hackathon 2025
- November 2024 | Participant in Hackathon X UMPSA 2024
- August 2024-September 2024| Participant In TI-UTeM Innovation Competition 2024(TUIC2024)
- August 2024 November 2024|Treasurer Kelab Sekretariat Rukun Negara Universiti Selangor
- January 2024-November 2024| Vice Treasurer Persatuan Bulan Sabit Merah Malaysia Universiti Selangor
- January 2022 -2023 August | Facilitator STEM Universiti Selangor

## ADDITIONAL INFORMATION

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### Technical Skills:

- Programming Languages: JavaScript, Python, C++, C#
- Web Development: React.js, HTML, CSS, TailwindCSS
- AI & Machine Learning: TensorFlow.js, MediaPipe (MoveNet), Data Preprocessing, Model Deployment
- Data & Backend: MySQL ,XAMPP and SQL
- Tools & Platforms: Git, GitHub, Visual Studio Code

**Languages:** English(Fluent), Malay(Fluent) and Tamil (Native)

**Certificates :** IBM Artificial Intelligence Fundamentals,Alibaba Cloud -Getting started with Machine Learning & AI

## REFERENCES

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### Ts. Marina Hassan

Academic Advisor  
Universiti Selangor

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### Marliza Abdul Malik

Lecturer  
Universiti Selangor

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