

## AZHAR SHARIF BIN ABU SEMAN

Kuching, Sarawak

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<https://github.com/azharshf>

### SUMMARY

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A motivated software engineer students with hands-on experience in programming, machine learning and human interface design. I am very excited to learn and grow in a real-world environment while actively contributing to the development of meaningful and impactful solutions.

### EDUCATION

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<b>Bachelor of Software Engineering with Honours</b> <b>Universiti Malaysia Sarawak (UNIMAS)</b>	<b>Kota Samarahan, Sarawak</b> <b>October 2023 - Present</b>
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Grade: 3.13 CGPA

- Received Dean's List for Semester 1 Session 2024/2025
- Received Dean's List for Semester 2 Session 2024/2025

**Life Science Stream**

**Kolej Matrikulasi Selangor**

Grade: 3.5 CGPA

MUET: Band 4

**Banting, Selangor**

**October 2021 - May 2023**

### EXTRACURRICULAR ACTIVITIES

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- #MenaSikTok Scam Awareness program participants (2 awards won)
- Finalist Sarawak Space Challenge (Consolation award)
- Global Nominee NASA Space App Challenge
- AWS Gen AI Cloud Tournament participant
- Attended AWS Builder online series
- Attended WWDC25 online Sessions&Labs
- EXCO External Relations Majlis Perwakilan Pelajar Matrikulasi Selangor
- President of Projek Kokurikulum Matrikulasi
- Photo Finisher Tandang Sari Regatta 2023
- Tandang Sari Regatta 2024 volunteer
- Renovation for faculty Database Science Centre volunteer
- President of PRS SMK PUSA

### PROJECTS

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#### **MindWise Software Developer & Software Tester**

- My team was designing a Java Swing application about mental health education using GitHub as version control.
- I have **developed the lesson page** where can choose 6 different learning topics with Java and acts as a **software tester** for the whole app then document the findings.
- Worked closely with the team, **obtaining grade A** for the subject, Java Programming.

#### **Goreport: Report Management App | Software Developer**

- My team was designing a **Flutter application** that assist our client Lettuboo which is a startup to help them manage reports.

- I have developed the public page of the app, such as integrating **OpenRouter API** for AI summaries for each report and designing statistics dashboard the public page, and more.

#### **Frute: Fruit Detection Model | ML Developer**

- Personal machine learning project focused on detecting multiple types of fruits in this case, apple, banana and wax apple.
- Designed a custom object detection model using **YOLOv8 architecture**.
- Annotated a dataset of 100+ images using **Label Studio**.
- Trained the model using **Google Colab** with a T4 GPU, running **60 epochs** via a **custom Python** training script.

#### **McFly: Disease Monitoring and Therapies App | Team Leader & Designer**

- I lead the team to design a Figma prototype for our McFly application that design focuses on seniors as the users.
- The app intend to assist old people to by monitor their health, schedule their appointment, medicine reminder and more with simple navigation.
- We interviewing seniors face to face to gain their feedback about the design, then improve on that.
- Worked closely with the team, **obtaining grade A** for the subject, Human Computer Interaction.

#### **GroWise: Climate Prediction for Agriculture | Software Developer & ML Developer**

- A Web Application software for climate prediction focuses on agriculture to protect crops and maximize yield.
- The software uses NASA Earthdata services, the converts the user location to MERRA-2 grid coordinates to obtain weather data.
- Sent weather data to four specialized OpenRouter API (crop recommendations, activities, insights, summary) with domain-tuned prompting for agriculture.
- Awarded **Top 5 Winner** out of 1,079 participants at the Sarawak Space Challenge (NASA Space Apps Challenge).
- GroWise received **Global Nominee**, chosen by **NASA**, competing with other projects globally to proceed as finalist.

#### **MatchaBean | Team Leader & Software Developer**

- Led a team of 5 to develop a full-stack web-based cafe ordering system using HTML, CSS, JavaScript, PHP, and MySQL.
- Implemented role-based access control with separate interfaces for customers (menu browsing, ordering, order tracking) and administrators (menu management, order processing, analytics).
- Designed and normalized MySQL database schema with foreign key constraints to maintain data integrity across users, products, orders, and transactions.
- Deployed the application to InfinityFree, handling database migration and production environment configuration.

#### **SKILLS & LANGUAGES**

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**Technical Skills:** Python programming, Machine learning, HTML, CSS, JavaScript, PHP, SQL, C++, Java, Dart, YOLOV8, label studio, Google Collab, Jupyter lab, SciKit-Learn, matplotlib, Pandas, NumPy, Flutter, Visual Studio Code, Git, GitHub, Microsoft word, Excel, PowerPoint, Canva.

**Languages:** English & Malay

## REFERENCES

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**Ts. Nurfaufa bt Jali**

Senior Lecturer at Faculty of Computer Science and  
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Internship Training Coordinator  
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**Dr Muhammad Asyraf bin Khairuddin**

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