

Valentine Agam

0146521429 | valentineagam6@gmail.com | Miri, Sarawak

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PROFESSIONAL SUMMARY

A Cognitive Science student specializing in Computer Science, Data Science, and Artificial Intelligence, with strong foundations in software engineering and full-stack web development. Experienced in machine learning, computer vision, and geospatial analysis through academic projects and industry internship. Designed and deployed YOLO-based detection models achieving over 90% accuracy and reducing manual inspection time by 2–3x. Skilled in Python, TensorFlow, SQL, Flutter, and GIS tools, with proven ability to deliver impactful solutions and contribute effectively to collaborative, fast-paced environments.

EDUCATION

University Malaysia Sarawak (UNIMAS)

Kuching, Sarawak

Bachelor of Science in Cognitive Science

Oct 2022 - Nov 2025

- Major: Computer Science | Minors: Data Science, AI/ML & Software Development
- Dean's List: Year 3, Semester 2 (2025)
- Relevant Coursework: Data Analysis, Software Engineering, Web Development, Artificial Intelligence

Kolej Tun Datu Tuanku Haji Bujang

Miri, Sarawak

STPM, Sport Science

Jun 2020 – Jul 2022

- Participant, National Scout Forum (2022)
- Leadership: Head of Student Council (Multimedia)

WORK EXPERIENCE

Sarawak Oil Palms Berhad (SOPB)

Miri, Sarawak

Data Analyst Intern

Jul 2024 – Oct 2024

- Applied GIS and Python solutions to support geospatial projects, improving efficiency and decision-making.
- Optimized datasets with GIS outputs and automated Excel reporting, streamlining plantation analysis workflows.
- Engineered machine learning models with TensorFlow & YOLO, achieving 90% accuracy in soil hole detection and improving oil palm detection speed by 2x.

PROJECTS

Ultra Dim (Flutter App) (APK)

Aug 2025

- Designed and deployed a Flutter-based mobile app to reduce excessive screen brightness, improving driver safety and comfort at night.

Oil Palm Object Detection (Final Year Project) (Machine Learning)

Feb 2025

- Developed and trained custom YOLO models to detect oil palm trees and soil holes with 92% accuracy.
- Applied dataset annotation, augmentation, and optimization techniques to enhance robustness.

AR Navigation (UNIMAS Navigator) (APK)

Mar 2025

- Built a mobile AR navigation app using Flutter SDK & Unity, integrating WebAR for interactive campus exploration

ACTIVITIES & LEADERSHIP

Neuroscience Club

Active Member

May 2024 – May 2025

- Participated in career talks (Neuroscience & Time Management) to broaden career and personal development insights.

Mobile Application Development Club

Active Member and Participant

Sep 2023 – Jan 2024

- Competed and won an award in the 3R Creative Innovation Competition 2023 for developing a mobile application.
- Mentored students at local high schools, teaching them to design and build mobile apps using MIT App Inventor.

Student Council

Head of Multimedia Exco

Oct 2021 – Jul 2022

- Directed multimedia initiatives (graphics, video, event coverage) to support council activities.
- Led a creative team producing digital content and social media campaigns for student engagement.

TECHNICAL SKILLS

- **Programming:** Python, SQL, R, C++, Dart, Java, C#
- **AI/ML:** TensorFlow, YOLO, Scikit-learn, OpenCV
- **Data & Geospatial:** QGIS, eCognition, Global Mapper, Power BI, SPSS, WEKA
- **Development Tools:** Flutter, Android Studio, Unity, Firebase, Web Development (HTML, CSS, PHP, JS)
- **Design & Prototyping:** Figma, Canva, Adobe Photoshop, Unreal Engine

LANGUAGES

- **English** – Fluent
- **Bahasa Melayu** – Fluent
- **Bahasa Iban** – Fluent

AWARDS & CERTIFICATIONS

- Award: Mobile Application Development – 3R Creative Innovation Competition (2023)
- Data Science (Cognitive Class)
- Python for Data Science (Cognitive Class)
- AI Rakyat (INTEL)

REFERENCES

Jane Mujan Aran | Industrial Training Supervisor

Sarawak Oil Palm Berhad (SOPB)

Email: jane.aran@sopb.com.my

Associate Professor Dr. Abdulrazak Yahya Saleh Al-Hababi | Research Supervisor

University Malaysia Sarawak (UNIMAS)

Email: ysahabdulrazak@unimas.my

Associate Professor Dr. Mohamad Hardyman bin Barawi | Academic Advisor

University Malaysia Sarawak (UNIMAS)

Email: bmhardyman@unimas.my