

Valentine Agam

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PROFESSIONAL SUMMARY

Cognitive Science graduate with specialization in Computer Science, Data Science, and Artificial Intelligence. Proficient in software development, full-stack web development, machine learning, computer vision, and geospatial analysis. Delivered YOLO-based detection models with 92% accuracy, reducing manual inspection time by 2-3x during industry internship. Skilled in Python, TensorFlow, SQL, Flutter, and GIS tools; excels in collaborative, fast-paced environments to drive impactful, scalable solutions.

EDUCATION

University Malaysia Sarawak (UNIMAS)

Kuching, Sarawak

Bachelor of Science in Cognitive Science

Oct 2022 - Nov 2025

- Minor: *Computer Science (Data Science, AI/ML, Software Development)*
- Dean's List: Year 3, Semester 2 (2025)
- Relevant Coursework: Data Analysis, Software Development, 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

Zenara Jaya

Miri, Sarawak

Business Development Executive

Dec 2025 – Present

- Led digital transformation initiatives, replacing legacy systems with scalable SaaS integrations, addressing industry-specific pain points and enhancing operational efficiency.
- Bridged technical and business needs using front-end expertise (React, JavaScript) to advise on solution architecture and manage end-to-end change processes.
- Boosted SaaS adoption and revenue by translating technical features into business outcomes, emphasizing ROI and long-term scalability for executive stakeholders.

Sarawak Oil Palms Berhad (SOPB)

Miri, Sarawak

Data Analyst Intern

Jul 2024 – Oct 2024

- Supported geospatial projects with GIS and Python solutions, optimizing datasets and automating Excel reporting to streamline plantation analysis workflows.
- Developed TensorFlow and YOLO-based machine learning models, achieving 90% accuracy in soil hole detection and 2x faster oil palm identification.

PROJECTS

Ultra Dim (Flutter App) (APK)

Aug 2025

- Designed and deployed Flutter-based mobile app to minimize screen brightness, enhancing driver safety and comfort during nighttime use.

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

Feb 2025

- Trained custom YOLO models to detect oil palm trees and soil holes with 92% accuracy, using dataset annotation, augmentation, and optimization for improved robustness.

AR Navigation (UNIMAS Navigator) (APK) Mar 2025

- Built mobile AR navigation app with Flutter SDK and Unity, integrating WebAR for interactive campus exploration.

ACTIVITIES & LEADERSHIP

Neuroscience Club

Active Member

May 2024 – May 2025

- Gained insights from career talks on neuroscience and time management to support professional and personal growth.

Mobile Application Development Club

Active Member and Participant

Sep 2023 – Jan 2024

- Won award in 3R Creative Innovation Competition (2023) for mobile app development.
- Mentored high school students in designing and building apps using MIT App Inventor.

Student Council

Head of Multimedia Exco

Oct 2021 – Jul 2022

- Led a Directed multimedia efforts (graphics, video, event coverage) and led team in creating digital content and social media campaigns to boost 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

AWARDS & CERTIFICATIONS

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

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)

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