Raffael Maulana

maevlava@gmail.com | https://linkedin.com/in/raffaelmaulana | https://github.com/maevlava | +6281221737058

WORK EXPERIENCE

Astra Community   **Jakarta, Indonesia**
Fullstack Developer   *Nov 2024 - Present*

- Architected and shipped scalable features using TypeScript and Next.js, boosting application performance and enabling seamless feature rollouts across platforms — reducing load times and supporting agile updates.
- Automated unit testing pipelines by module, slashing manual QA efforts and cutting deployment cycles by ~2 weeks per release.
- Led UX documentation efforts, creating a centralized repository of UI enhancements that improved design consistency and developer alignment.

Civeo Australia   **Perth, WA**
FIFO Operations and System Assistant   *Feb 2023 - Dec 2024*

- Tested and validated mobile housekeeping systems onsite across 3 FIFO camps, identifying critical issues that reduced workflow errors by 20%, improving efficiency and reliability.
- Designed and implemented data validation protocols, increasing reporting accuracy by 30% and enhancing decision-making for operations management.
- Gathered and analyzed feedback from 15+ housekeeping staff, leading to 12 targeted system improvements that optimized workflows and user satisfaction.

iSeller commerce   **Jakarta, Indonesia**
Mobile Application Engineer Intern   *Feb 2022 - Feb 2023*

- Refactored legacy C# codebases to improve modularity and maintainability, reducing technical debt across multiple app modules.
- Created structured UML diagrams and feature plans to bridge communication between design and engineering teams, enabling faster iteration cycles.

Binus International University   **Jakarta, Indonesia**
Machine Learning & Agriculture Researcher   *Jan 2024 - Feb 2025*

- Authored and published a peer-reviewed paper detailing model performance and key findings, supporting further study and application in real-world scenarios.
- Conducted research on rice leaf disease classification using HSV-based K-Means segmentation, contributing to early detection solutions in precision agriculture.

ENTREPREUNIAL EXPERIENCE

SW Laundry   **Bandung, Indonesia**
Owner   *Jan 2024 - Present*

- Implemented inventory and supplier management processes, negotiating volume discounts to lower detergent and packaging expenses by 15%.
- Developed a route-optimization workflow for pickup and delivery operations, reducing average turnaround time by 30% and cutting fuel costs by 20%.

LEADERSHIP EXPERIENCE

Math and AI Modelling Community   **Bandung, Indonesia**
AI Workshop Lead   *Jan 2024 - Present*

- Curated and led sessions on K-Means clustering and ML pipelines for 20+ participants, guiding them through rice disease image segmentation.
- Produced step-by-step tutorial materials and Jupyter notebooks, empowering members to replicate and extend HSV-based segmentation workflows.

EDUCATION

Binus International University   **Bandung, Indonesia**
Bachelor of Computer Science, 3.50/4.00   *Graduation Date: Jul 2024*

SKILLS & INTERESTS

Skills: Backend development, Machine Learning, Mobile-first applications, T3 Stack (TypeScript, Tailwind, TRPC, Next.js), Cypress, Vite, UML, Clean architecture, Data Analytics

Interests: Hackathons, Agricultural ML research, Clean architecture, Technology impact on people.