

Reza Arya Wijaya

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TECHNICAL SKILLS

Languages & Data : Python, TypeScript, JavaScript, PHP, NumPy, Pandas, Matplotlib, FastF1
AI, ML & Vector Search : TensorFlow, PyTorch, Keras, Scikit-Learn, YOLO, MediaPipe, OpenCV, RAG, LangChain, Mastra AI, Qdrant
Backend, DBs & Tools : FastAPI, Flask, MySQL, Microsoft SQL Server, Firebase, PostgreSQL, Supabase, Git, Docker, n8n, Sentry, wandb

PROFESSIONAL EXPERIENCE

DOT Indonesia | Malang, Indonesia

AI Engineer – Short-term Freelance (Jan 2026 – Feb 2026)

- Decreased computational overhead by 40% by migrating BikinKonten generation logic from legacy Puppeteer automation to the Higgsfield API, engineering a fault-tolerant real-time delivery system via SSE and Supabase polling.
- Ensured code stability and streamlined deployments by architecting CI/CD pipelines and integrating Sentry for real-time production error monitoring.

AI Engineer – Internship (Jul 2025 – Dec 2025)

- Accelerated off-hours customer response times by 90% by engineering an autonomous agent (Mastra AI, OpenRouter LLMs) featuring RAG-enabled context retrieval and an n8n sub-agent for automated Google Sheets booking management.
- Automated cross-platform processes by integrating n8n with GitLab, Sentry, and Google Sheets, reducing manual effort in bug tracking and project reporting by 45%.
- Optimized enterprise content generation workflows by developing an internal Vertex API tool and automating Higgsfield web interactions via Puppeteer, significantly minimizing manual resource requirements.

PT. Graha Sarana Gresik | Gresik, Indonesia

Machine Learning Engineer – Internship (Jan 2025 – Jul 2025)

- Architected an end-to-end Natural Language Processing (NLP) solution, developing both the underlying model and the full-stack infrastructure to automate the division's internal digital mailing system.
- Engineered a real-time computer vision application utilizing MediaPipe, OpenCV, and PyGUI to enable seamless, latency-free mouse gesture control via hand tracking.

PROJECT EXPERIENCE

F1 Pit Wall Telemetry & Race Intelligence Platform | [Github Link](#)

Jul 2026 – Aug 2026

- Engineered a distance-synchronized telemetry analysis pipeline using Python, Pandas, and NumPy, interpolating multi-driver GPS and input traces.
- Architected publication-grade 2D spatial track dominance maps using Matplotlib LineCollection, automated corner annotation, and multi-panel engineering dashboards.

EEG-Based Biometric System | [Github Link](#)

Jan 2026 – Jun 2026

- Engineered an accessible EEG-based biometric authentication model, generating robust brainwave embeddings to provide a secure, barrier-free alternative for users with varying physical capabilities.
- Architected a high-performance vector search pipeline using Qdrant, implementing Hierarchical Navigable Small World (HNSW) algorithms to enable rapid Approximate Nearest Neighbor (ANN) retrieval for real-time authentication.

FaceCount (Attendance Counter Application Based on Gender) | [Github Link](#)

Sep 2024 – Dec 2024

- Deployed a real-time facial recognition application (TensorFlow, Flask, Docker) for event demographic tracking, achieving 98% accuracy and cutting manual recount time by 60%.

EDUCATION

Politeknik Negeri Malang | Malang, Indonesia

Bachelor of Informatics Engineering (Aug 2022 – Jul 2026)

- Current GPA: 3.81/4.00