Aretha Tiurma Shaloom Wiratmoko

Computer Science

arethawiratmoko@gmail.com +62852-43604743 Jakarta Barat

linkedin.com/in/arethawiratmoko1012 github.com/aretha12 indonesia

SUMMARY

I am a Computer Science undergraduate specializing in Data Science, currently deepening my knowledge in machine learning. Additionally, I have a strong interest in graphic design, backed by one year of experience creating visual content for the organization Persekutuan Oikoumene

EDUCATION

Undergraduate Computer Science 2024 – Present
Universitas Bina Nusantara Malang, Indonesia

High School Diploma 2021 – 2024
SMA Kristen Kalam Kudus Jayapura Jayapura, Indonesia

CERTIFICATES

- Certificate of Appreciation – Bootcamp Practical AI: Hands-on AI Deployment
- Certificate of Completion – Guide to Learn R with AI at DQLab
- Microsoft Elevate AI Training Session – Azure AI Fundamentals: "Microsoft AI-900T00-A Belajar AI dari Dasar"
- Certificate of Completion – R Fundamental for Data Science

AWARDS

Scientific Writing Competition 2023 2023
Universitas Cendrawasih
- Collaborated in a team (SMA Kristen Kalam Kudus Team 1) to present the project: *"Local Food Innovation Through Sweet Potato Processing as a Stunting Prevention Measure."*
- Developed an innovative sweet potato-based food product (*pangsit ubi*) aimed at addressing and preventing childhood stunting through utilizing local resources.

PROJECTS

Health Insurance Cost & Risk Prediction System 2026
Machine Learning Classification & Regression
- Built an end-to-end Machine Learning model as a final project for the Machine Learning course to classify customer health risks and estimate premium insurance costs.
- Developed a classification model to categorize customer health risks into High/Low risk tiers.
- Implemented regression analysis to accurately estimate premium costs by identifying patterns across demographic profiles, clinical history, and lifestyle factors.

Lapak.in 2026
Web Based Land Leasing Platform
- Designed end to end web UI/UX interfaces in Figma for a commercial land leasing platform connecting micro vendors (PKL/MSMEs) with vacant space owners.
- Crafted intuitive multi role user flows and responsive web mockups for Renters, Space Owners, and Admins, covering space discovery, lease request modals, negotiation, and incoming reservation dashboards.
- Authored and compiled the comprehensive Software Engineering final report, documenting user problem analysis, system requirements, SDLC Agile Scrum sprints, and black-box testing results.

MoGrow 2025
AI-Powered Web Application for Early Stunting Detection & Pregnancy Risk Prediction
- Developed a web-based application utilizing Machine Learning as a final project for the Artificial Intelligence course.
- Integrated predictive models to detect and prevent early stunting risks in children.
- Features a dedicated health risk assessment tool for pregnant women to monitor and predict health complications during pregnancy.

Bootcamp Practical AI: Hands-on AI Deployment 2025
HIMTI BINUS University Malang Bootcamp
- Developed and deployed a financial machine learning web application to forecast short term Samsung stock price movements.
- Engineered key market indicators, including one day percentage returns and moving average gaps, to drive predictive modeling.
- Implemented real time model inference and interactive probability distribution visualizations to improve decision making clarity.

The Garbage Gnomes Interactive AR Waste Sorting System 2025
Human-Computer Interaction (HCI) Final Project
- Designed foundational Augmented Reality (AR) experiences using 8th Wall to raise university student awareness on waste segregation in alignment with SDG 3 and SDG 15.
- Formulated interactive "This or That" gamification mechanics to educate users on distinguishing organic and inorganic waste in real time mobile AR environments.
- Authored the comprehensive final project report and analyzed survey based user evaluation data collected during the university's HCI exhibition.

BabyPal 2025
IoT Smartband & Infant Health Monitoring App
- Co-designed intuitive mobile UI/UX interfaces for an IoT infant sleep and health tracking platform.
- Translated user research and empathy maps into vital tracking screens, including real time heart rate, blood pressure, and sleep movement statistics.
- Authored the comprehensive final project report, covering business model validation, usability testing results, and SDG 3 alignment.

ORGANISATIONS

Persekutuan Oikoumene 01/2026 – Present
Community and Prayer Coordinator Malang, Indonesia
In Persekutuan Oikoumene, I learned to coordinate various tasks collaboratively within a team. Currently working in a fully remote capacity, my responsibilities include managing online team coordination and serving as a community care officer for the organization. Additionally, I provide spiritual support by actively praying for the personal and collective challenges faced by the committee, activists, and the congregation.

Persekutuan Oikoumene 03/2025 – 12/2025
Documentation and Publication Staff Malang, Indonesia
During my time at the Persekutuan Oikoumene, I handled graphic design responsibilities, including creating greeting posters, event flyers, social media feed posts, event documentation, and video editing. Additionally, I took on a leadership role in managing an organizational event, which allowed me to develop strong skills in team management, cross-functional communication, and effective leadership

Organisasi Siswa Intra Sekolah (OSIS) 2023 – 2024
Coordinator of Spiritual Affairs Jayapura, Indonesia
- Led the spiritual affairs department, marking the first formal leadership role in an organization.
- Managed and coordinated schedules, logistics, and execution for various school worship services and religious events.
- Developed strong teamwork, project management, and public speaking skills through regular presentation and coordination tasks.