

Achmad Nur Aqmali

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github.com/achmad-nur?tab=repositories

A graduate of Informatics Engineering from UIN Malang (December 2024) with a focus on front-end development and IoT. Experienced in developing IoT systems for smart agriculture through competitive research projects. Skilled in programming, UI/UX design, and data analysis. Ready to contribute to the innovative technology sector.

EDUCATION

Bachelor of Informatics Engineering

Aug 2020 - Dec 2024

UIN Maulana Malik Ibrahim Malang

GPA: 3.71

- Recipient of a competitive research grant for an IoT-based hydroponic monitoring system.
- Final research: Implementation of Kalman Filter for pH sensor data stabilization in smart hydroponics.
- Active member of ONTAKI (Automation and Robotics UIN Maliki), contributing to IoT and automation projects.
- Developed a real-time monitoring system for IoT devices with data visualization and cloud storage.

IPA

Aug 2016 - Apr 2019

SMA Negeri 1 Giri

- Actively participated in Rohis (Islamic Student Organization) as the Head of Religious Affairs Division.
- Led the Maulid Nabi celebration committee, organizing events and coordinating teams.

WORK EXPERIENCE

Ticket Agent

Aug 2019 - Present

Atosim Lampung Pelayaran

Banyuwangi, Indonesia

- Handling direct and online ticket reservations and monitoring ticket schedules.
- Providing customers with information on departure schedules, ticket prices, and travel policies.
- Managing operational coordination, including departure schedules and ticket availability.
- Processing and managing ticket data for an average of 20 transactions per day.
- Handling customer complaints with quick and effective solutions.
- Managing payment transactions and ensuring daily sales reports are well-organized.

Web Designer & Front-End Developer

Jul 2023 - Sep 2023

Dosen Deso

Malang, Indonesia

- Designed, developed, and tested website UI/UX to enhance user experience.
- Implemented and optimized interactive designs using Figma & Vue.js for better responsiveness.
- Managed and evaluated redesigns for over 5 main pages to improve user experience

ORGANIZATIONAL & VOLUNTEER EXPERIENCE

Staff of the Ministry of Communication & Information

Sep 2022 - Sep 2023

ONTAKI (Automation and Robotics UIN Maliki)

Malang, Indonesia

- Managed internal communications & social media for the robotics organization.
- Sought competition opportunities & facilitated knowledge-sharing sessions.

Student Orientation Mentor

Aug 2022 - Sep 2022

Informatics Engineering Student Association

Malang, Indonesia

- Assisted new students in academic & professional adaptation.
- Organized department introductions for over 20 new students.
- Facilitated team-building activities to improve student collaboration

Head of Religious Affairs Division

Aug 2016 - Sep 2017

Islamic Student Organization (Rohis)

Banyuwangi, Indonesia

- Led the Maulid Nabi celebration committee, organizing events and team coordination.
- Actively participated in religious activities and regular study sessions.

PROJECTS

Implementation of Kalman Filter for Stabilizing pH Sensor Data in Smart Hydroponics

Mar 2024 - Nov 2024

Role: IoT & System Development

- Designed & developed a smart hydroponic system with IoT-based pH sensors, automatic pumps, and microcontrollers.
- Implemented Kalman Filter algorithm to stabilize sensor data & improve accuracy.
- Reduced sensor noise fluctuation from ± 0.5 to ± 0.3 (~40%), ensuring more stable pH readings.
- Achieved low error rate (0-1.86%), enhancing precision in nutrient solution control.
- Improved system responsiveness, keeping pH stable against environmental changes.

SKILLS

Database Management: SQL, MySQL, PostgreSQL

Technologies: HTML, CSS, JavaScript, Java, MySQL, Arduino IDE

Internet Of Things and Robotics: Internet of Things (IoT), System Automation, Robotics, Basic Networking, System Monitoring

Design: UI/UX Design, Figma, Photoshop, Canva, Blender (3D Modeling)
Soft Skills: Problem-Solving, Analytical Thinking, Teamwork, Adaptability, Communication

CERTIFICATIONS

HTML & CSS Training by Digital Talent Scholarship Komdigi	Apr 2022
JavaScript Training by Digital Talent Scholarship Komdigi	Apr 2022

LANGUAGES

Indonesia (Native proficiency) • English (Limited working proficiency) • Arabic (Elementary proficiency)

AWARDS

Riset Kompetitif Mahasiswa by UIN Maulana Malik Ibrahim Malang	Jul 2023
<ul style="list-style-type: none">Research Title: Analysis of Growth and Development of Hydroponic Plants in an IoT-Based Vertical Garden Using the RAL MethodRole: IoT System DesignerSelected through a multi-stage competition (department → faculty → university level).Designed & developed an IoT system for pH & temperature monitoring in hydroponics.Analyzed plant growth differences between IoT-based & conventional methods.Results: Improved farming efficiency & data accuracy for plant growth monitoring.	