



WALID HANIF ATAULLAH

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ABOUT ME

Result-oriented Software Engineering graduate with a strong track record in Fullstack Development, Applied Research, and AI integration (Machine Learning/Deep Learning). Experienced in delivering robust web/mobile applications and publishing Scopus-indexed research. Proven ability to lead agile teams and build impactful digital solutions for smart energy, IoT, and government operations.

EDUCATION

Bachelor of Software Engineering

Telkom University, Bandung Regency, Indonesia [2021 – 2025]

- **Field(s) of study:** Information and Communication Technologies, and Software and applications development.
- **Final Grade:** 3.79 (Cum Laude) | **Level in EQF:** EQF level 6
- **Thesis:** Web Design Using Agile Method for Monitoring Detection of Cigarette and Vape Smoke with Semantic Segmentation

WORK EXPERIENCE

PT. Harapan Energie Indonesia – Tangerang City, Indonesia | [16/12/2025 – 15/06/2026]

Fullstack Developer (Internship)

Key Responsibilities:

- Developed and optimized 5 mobile/web applications (APJ Gate, Prapin, Trafacomm, GPS Tracker, Stroomer) using Flutter, Angular, Astro, and Serverless Framework (Node.js).
- Integrated IoT smart meter connectivity (Bluetooth, Wi-Fi configuration), real-time location tracking, and automated communication tools (Nodemailer, Sanity CMS).
- Implemented executive energy audit features with environmental impact (ESG) analytics.

Center of Excellence for Technological Society (CAATIS), Telkom University – Bandung, Indonesia | [09/12/2024 – 31/07/2025]

Research Assistant (Part-Time)

Key Responsibilities:

- Conducted applied research and built web systems (E-Buruan Sae Dashboard, DKPP Store, Hadir.In) utilizing Laravel, CodeIgniter, and MySQL.
- Led student development teams as Scrum Master/Project Lead for "E-Laman Hati" and "Kacir FnB" mobile apps.
- Boosted operational efficiency through automated scheduling, reporting, and predictive analytics.

CAATIS, Telkom University – Bandung, Indonesia | [16/09/2024 – 08/01/2025]

Fullstack Developer (Internship) | **Link:** <https://bit.ly/wrapresearchipinternshipcaatistelkomuniversity>

Key Responsibilities:

- Designed and built "Jadwal.in" (Barista Scheduling System) using Laravel and MySQL, streamlining shift planning across multiple branches.

Department of Communication and Informatics of Tangerang Regency – Tangerang Regency, Indonesia | [15/07/2024 – 30/08/2024]

Fullstack Developer (Internship) | **Link:** <https://bit.ly/internshipdiskominfortangerangregency>

Key Responsibilities:

- Developed "SIMONA" (Non-ASN Employee Management Information System) using Laravel, improving data management for local government administration.



PROJECTS

[Prabayar Pintar \(Prapin\) Mobile App](#) | 2026

- Enhanced a Flutter-based mobile energy management app by restructuring device onboarding workflows, redesigning smart meter input interfaces, and implementing IoT connectivity features (Bluetooth, Wi-Fi, handshaking) alongside OpenWeather API integration.

[APJ Gate Web Monitoring System](#) | 2026

- Designed and engineered the executive energy audit feature for a street lighting management platform using Angular and Node.js (Serverless Framework), implementing calculation logic for ESG metrics, TCOO (12-year), and investment efficiency.

[GPS Tracker Web Dashboard](#) | 2026

- Developed a web-based real-time GPS tracking system using Angular and Node.js Serverless Framework, enabling multi-device monitoring, live location tracking, and historical data filtering.

[Transformer Advanced Commissioning \(Trafacomm\)](#) | 2025 – 2026

- Developed a mobile frontend using Flutter and RESTful APIs to support real-time transformer asset management, field installation workflows, and remote tracking configurations.

[Stroomer Company Website](#) | 2025

- Upgraded corporate platform features using Astro, Node.js (Serverless), and Sanity CMS; engineered backend APIs for automated recruitment hiring workflows, CV uploads, and automated email notifications via Nodemailer.

[Palm Oil Machine Analytics Dashboard](#) | 2025

- Developed a real-time web analytics dashboard using Laravel integrated with computer vision to ingest, visualize, and monitor machine parameters for automated anomaly detection.

[E-Laman Hati Mobile Platform](#) | 2025

- Led a student development team using Agile Scrum to redevelop a mobile animal health management system for the Bandung City Government (DKPP), covering registration and vaccination tracking.

[Kacir FnB Mobile POS](#) | 2025

- Served as Agile Scrum Lead for the development of a mobile Point-of-Sale (POS) application, implementing transaction processing, multi-outlet management, and automated sales reporting features.

[Attendance System \(Hadir.In\)](#) | 2025

- Enhanced a web-based organizational attendance tracking platform using Laravel and MySQL, implementing dynamic forms and automated PDF reporting to boost administrative efficiency.

[DKPP Store Portal](#) | 2025

- Developed a web application portal using Laravel and MySQL for Bandung City's DKPP to showcase and provide centralized public access to digital innovations in food security.

[E-Buruan Sae Dashboard](#) | 2024 – 2025

- Upgraded an urban farming web dashboard using CodeIgniter and MySQL, implementing data management features for harvest prediction and agricultural distribution tracking.

[Barista Schedule Management System \(Jadwal.in\)](#) | 2024 – 2025

- Engineered a multi-outlet workforce shift planning web system using Laravel and MySQL to optimize shift coordination, approval workflows, and real-time retail operational efficiency.

[Non-ASN Employee Management System \(SIMONA\)](#) | 2024

- Designed and built a local government web platform using Laravel and MySQL to manage non-civil servant workforce data and optimize administrative record tracking.



PUBLICATIONS

First Author | [Pose-Based Action Recognition in Tennis Using MediaPipe and LSTM](#)

- **Journal:** International Journal on Information and Communication Technology (IJolCT) | 2025
- **Indexation:** SINTA 3

First Author & Presenter | [Optimizing Barista Shift Scheduling in Multi-Branches Through System Development Using Design Thinking](#)

- **Conference:** 3rd International Conference on Software Engineering and Information Technology (ICoSEIT) | 2025
- **Indexation:** Scopus (IEEE Xplore)

First Author & Presenter | [Multi-Purpose Security Camera for E-Cigarette Smoke Detection With Semantic Segmentation](#)

- **Conference:** 7th International Conference on Information and Communications Technology (ICOIACT) | 2024
- **Indexation:** Scopus (IEEE Xplore)

Co-Author & Presenter | [Optimized Semantic Segmentation for Fish Detection Using DeepLabV3 and MobileNetV3 on Resource-Constrained Systems](#)

- **Conference:** 9th International Conference on Software Engineering & Computer Systems (ICSECS) | 2025
- **Indexation:** Scopus (IEEE Xplore)

Co-Author | [Frontend Design and Implementation of a Research Dashboard for the PPM Directorate Using the Agile Scrum Methodology](#)

- **Conference:** 3rd International Conference on Software Engineering and Information Technology (ICoSEIT) | 2025
- **Indexation:** Scopus (IEEE Xplore)

Co-Author | [Performance and Reliability Analysis of 4G-Based Flight Controllers in UAV Control](#)

- **Conference:** International Conference on Converging Technology in Electrical and Information Engineering (ICCTEIE) | 2025
- **Indexation:** Scopus (IEEE Xplore)

Co-Author | [Design and Implementation of Real-Time Monitoring System for Bird Tracking Applications](#)

- **Conference:** 9th International Conference on Software Engineering & Computer Systems (ICSECS) | 2025
- **Indexation:** Scopus (IEEE Xplore)

Co-Author | [A Digital Solution for Zoo Health Management: Ensuring Continuity of Care Without In-House Veterinarians](#)

- **Conference:** 3rd International Conference on Software Engineering and Information Technology (ICoSEIT) | 2025
- **Indexation:** Scopus (IEEE Xplore)

HONOURS AND AWARDS

- [Outstanding Graduate in Bachelor of Software Engineering – School of Computing, Telkom University](#) | 21/10/2025
- [Finalist – TEKNOFEST International Unmanned Aerial Vehicles Competition – TEKNOFEST 2023 \(International\)](#) | 19/04/2023
- [3rd Place – National English Language and Spatial Orientation Olympiad - EDSA Universitas Negeri Surabaya & Lembaga Bina Prestasi Nusantara \(National\)](#) | 02/12/2023
- [2nd Place – National Public Discussion Poster Competition – PUSDIMA FIS Universitas Negeri Jakarta \(National\)](#) | 20/11/2022
- [Bronze Medal – Pateron Championship Competition Premiere – Pateron Indonesia \(National\)](#) | 10/10/2022
- [Top 200 Team – Indonesia Digital Tribe \(IDT\) – Ministry of SEO/State-Owned Enterprises & Partners \(National\)](#) | 04/04/2022
- [2nd Place – Inter-Nation Mathematics Competition – STMIK Antar Bangsa \(National\)](#) | 15/03/2021
- [3rd Place – 14th Indonesian Student Olympic League – Club Olimpiade & FMIPA Universitas Sumatera Utara \(National\)](#) | 07/06/2020
- [Finalist – Nuclear Smart Competition – Sekolah Tinggi Teknologi Nuklir BATAN \(National\)](#) | 10/11/2019



INTELLECTUAL PROPERTY

- [Palm Oil Machine Analytics Dashboard Application \(Copyright\)](#) | 2025
- [Barista Schedule Management System / Jadwal.in \(Copyright\)](#) | 2025
- [Attendance System / Hadir.In \(Copyright\)](#) | 2025

CERTIFICATIONS

- [HackerRank – Software Engineer Role Certification](#) | 2026
- [DeepLearning.AI – Deep Learning Specialization](#) | 2026
- [DeepLearning.AI & Stanford University – Machine Learning Specialization](#) | 2026

VOLUNTEERING

- [Twilight Spectrum Festival \(Al-Fath Telkom University\)](#) as the Head of Public Relations | 2023
- [Journal Training for Internal Scholarship Students \(Formadiksi Telkom University\)](#) as Chief Organizer | 2022 – 2023
- [Scientific Research Club \(SMAN 5 Tangerang Regency\)](#) as Club President | 2019 – 2020
- [Student Council / OSIS \(SMAN 5 Tangerang Regency\)](#) | 2019 – 2020

TECHNICAL & SOFT SKILLS

Programming Languages

- Python, Golang, JavaScript, TypeScript, PHP, SQL, C, C++, C#, R, JSON

Full-Stack & Mobile Development

- **Backend:** Node.js, Gin (Golang), Flask (Python), Laravel, CodeIgniter
- **Frontend & Mobile:** Next.js, React, Angular, Vue.js, Astro, Flutter
- **Databases & CMS:** MySQL, PostgreSQL, MongoDB, Sanity.io

Machine Learning & Data Science

- **Frameworks:** TensorFlow, PyTorch, Scikit-Learn
- **Computer Vision:** CNN, LSTM, DeepLab, MobileNet, Semantic Segmentation
- **Workflows:** Model Development, Training, Evaluation, and Performance Optimization

Cloud, DevOps & Professional Tools

- **Cloud & Firebase:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Firebase
- **Containers & Version Control:** Docker, Git, GitHub
- **Development Tools:** Postman, Android Studio, Arduino IDE, Jupyter Notebook, Google Colab

Software Engineering Methodologies

- **Development Frameworks:** Agile Scrum, Kanban, Extreme Programming (XP), Waterfall
- **System & Architecture:** System Design, Design Thinking, Object-Oriented Programming (OOP)
- **Software Testing:** Unit, Integration, System, Performance, Security, and Usability Testing

Internet of Things (IoT) & Systems

- Embedded Programming, Sensor-Based Data Acquisition, IoT-Cloud Integration, Real-Time Monitoring System.

Soft Skills & Interpersonal Competences

- Team Leadership (Agile Scrum Master experience), Cross-Functional Collaboration, Public Relations, Analytical Problem Solving, Stakeholder Management, and Adaptability