

# RAFFI HIDAYAT

## Junior Software Engineer

Medan, Indonesia, Komplek Ar Rahman, 20371

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### SUMMARY

High-achieving Informatics Education undergraduate at Universitas Negeri Medan with a strong focus on IoT and Software Engineering. Successfully developed a PIMNAS-qualified wearable device utilizing Python and ESP32. Skilled in merging complex technical solutions with educational goals. Seeking to leverage expertise in Full-stack development and hardware integration in a challenging internship or junior developer role.

### EXPERIENCE

- ❖ Web Developer, Faculty of Engineering UNIMED (Academic Project) ..... Jul 2025 — Dec 2025  
Medan, Indonesia
  - Built a modern Faculty Information System utilizing the **TALL Stack (Tailwind CSS, Alpine.js, Laravel 12, Livewire)**.
  - Designed a highly responsive and aesthetic user interface using **Tailwind CSS** to ensure cross-device compatibility.
  - Implemented **Livewire** and **Alpine.js** to create dynamic, real-time components with a Single-Page Application (SPA) experience.
  - Engineered backend modules for complex academic data management within the Filament ecosystem.
- ❖ Lead Researcher & IoT Developer, Kemendikbudristek (Program Kreativitas Mahasiswa) ..... Apr 2025 — Dec 2025  
Medan, Indonesia
  - Engineered "Wearable Teach Assistance," an IoT-based monitoring device to analyze the engagement of Down Syndrome students using EEG sensors.
  - Developed data processing algorithms using Python to interpret brainwave signals and visualize real-time responses.
  - Selected as a National Finalist in PIMNAS 38 (Pekan Ilmiah Mahasiswa Nasional), competing as one of the top student research teams in Indonesia.
- ❖ Research Assistant - Web Developer, Universitas Negeri Medan ..... Jul 2025 — Sep 2025  
Medan, Indonesia
  - Collaborated with a lecturer to develop "**E-Library**", a web-based library management system implemented at **SMK Swasta Teladan Sumatera Utara 2**.
  - Built core features including book cataloging, member management, and loan tracking to digitize the school's library administration.
  - Tech Stack:** Developed using **PHP Native** and **MySQL** for database management.
  - Conducted system testing and user training for school staff to ensure smooth adoption.
- ❖ Research Assistant - Mobile App Developer, Universitas Negeri Medan ..... Oct 2025 — Nov 2025  
Medan, Indonesia
  - Developed a real-time attendance mobile application using Kotlin (Native Android).
  - Integrated Google Firebase for real-time database management and user authentication to ensure data accuracy.
  - Implemented barcode scanning features for secure student attendance logging.

- ❖ Technical Developer (IoT & Mobile), Kemendikbudristek (Program Kreativitas Mahasiswa) Jan 2024 — Aug 2024  
Medan, Indonesia
- Designed an automated parking system integrating a mobile application with ESP8266 microcontrollers.
  - Built a mobile payment ecosystem where users scan barcodes for entry/exit, triggering the automated gate servo via IoT requests.
  - Streamlined the parking transaction process, reducing manual ticketing and improving verification efficiency.

EDUCATION

- ❖ Universitas Negeri Medan 2022 — 2026  
Bachelor of Education in Informatics and Computer, Medan, Indonesia
- Current GPA:** 3.65/4.00
  - Undergraduate student emphasizing in software engineering, network administration, and educational technology.
  - Relevant Coursework:** Web Development, Database Management, Computer Networks, and Pedagogy.
  - Equipped with skills in teaching methodology and instructional media development for vocational high schools (SMK).

SKILLS

- HTML5, CSS3, & JavaScript  
Laravel & PHP  
Python  
Unity (AR/VR)
- Tailwind CSS & Bootstrap  
Mobile App Dev (Flutter/Kotlin)  
Git / Version Control

CERTIFICATIONS AND LICENSES

- Funded Student Creativity Program (PKM-KI)** Ministry of Education, Culture, Research, and Technology (Kemendikbudristek) | 2025 Secured research funding and qualified for the National Student Scientific Week (PIMNAS).
- Funded Student Creativity Program (PKM-PI)** Ministry of Education, Culture, Research, and Technology (Kemendikbudristek) | 2024 Secured research funding for IoT-based assistive device project.
- UNIMED Student Grant Awardee** Universitas Negeri Medan | 2024 Secured competitive research funding to analyze Triple-Tuned Filter performance.

HOBBIES AND INTERESTS

- ❖ Reading Tech & Innovation Literature
- ❖ Exploring Machine Learning & Automation
- ❖ Home Automation & IoT Tinkering