

SIMON PETER

WEB DEVELOPER | MOBILE DEVELOPER

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Undergraduate Informatics student specializing in web application development and IoT-based systems. Experienced in building internal faculty systems (approval workflow and performance dashboards) and developing *SmartLele*, an IoT-based catfish aquaculture automation platform integrating mobile applications, cloud backend, and ESP32 devices. Proven ability to deliver end-to-end solutions independently, covering requirements analysis, UI design, frontend, backend, and system integration.

INTERNSHIP

Web Developer – MBKM Internal

School of Communication and Social Sciences, Telkom University Bandung

February 2025 – June 2025

- Built the Approval System, a web application that digitizes the academic document submission and approval workflow, replacing Google Forms and manual paper-based processes.
- Designed and developed GrowthView FKS, a faculty performance dashboard with 13 core features, including data visualizations and user access management.
- Handled full-cycle development as a single developer—requirements gathering, UI design, frontend, and backend integration—while coordinating directly with faculty stakeholders.
- Tech stack: Next.js, Supabase.

PROJECT

SmartLele – IoT-Based Catfish Farming Automation System

Telkom University Bandung

October 2025 – December 2025

- Developed the Flutter mobile frontend for farmers, including login, water quality monitoring (pH, temperature, turbidity), pond detail pages, and actuator control (feeder, pump, valve).
- Implemented the Supabase backend: database schema, authentication, sensor data storage, and edge functions used by the mobile app and ESP32 devices.
- Integrated ESP32-based IoT devices with the backend by designing payload formats, communication endpoints, and real-time data/control pipelines.
- Tech stack: Flutter, Supabase, ESP32.

EDUCATION

Bachelor of Informatics

Telkom University - Bandung, Indonesia

2022 - Present

- GPA: 3.71/4.00

SKILLS

- Flutter, Firebase, NextJS, Supabase, JavaScript, Vercel, Git