

LUKMAN HAKIM

Mobile Software Engineer & Information Systems Undergraduate

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Tangerang / Greater Jakarta, Indonesia



Aspiration for Apple Developer Academy 2026/2027: Dedicated Mobile Engineer and 5th-Semester Information Systems student driven by *Challenge-Based Learning (CBL)*. Passionate about transforming real-world grassroots frictions into elegant, tactile digital solutions adhering to Apple Human Interface Guidelines (HIG). Aspiring to master native iOS (Swift/SwiftUI), engage in multidisciplinary teamwork, and engineer software that creates tangible community impact.

CORE COMPETENCIES

Mobile & Client Engineering

Flutter Dart Swift (Foundational) SwiftUI Exploration
Riverpod / BLoC Clean Architecture SQLite / Hive

Apple HIG & Interaction Design

Thumb Zone (44pt+) Tactile Haptics WCAG 2.1 Contrast
Fluid Micro-interactions AMOLED Dark Mode

Cloud Systems & Automation

Cloud VPS (FastAPI/Nginx) SHA-256 In-App OTA
Background Isolates RESTful APIs Crash Telemetry

Methodologies & Tools

Challenge-Based Learning Git / GitHub CI Figma UI/UX
Agile / Scrum

EDUCATION CREDENTIALS

Universitas Pamulang (UNPAM)

B.S. in Information Systems (S1)

2024 – Present (5th Semester)

Current GPA: 3.85 / 4.00. Relevant Coursework: Mobile App Programming, Human-Computer Interaction (HCI), Systems Analysis & Design (UML), Database Engineering, Software Project Management.

PKBM Hang Tuah (Pekanbaru)

High School Equivalency (Paket C IPS)

Graduated May 2024

National Kemendikbudristek Diploma. Evidence of disciplined self-directed study and perseverance while working.

LANGUAGES

- Indonesian:** Native / Bilingual
- English:** Professional Working Proficiency (Technical Documentation, International Literature & Research)

SELECTED ENGINEERING & PRODUCT EXPERIENCE

Sesaat Segari — Shift & Wage Calculation Platform

2024 –

Lead Mobile Engineer & Product Designer • Self-Initiated Grassroots Fieldwork

Present

An offline-first workforce utility engineered to eliminate wage opacity for daily warehouse workers (pickers, packers, inventory auditors).

- Empathy & Investigation:** Conducted direct workplace interviews with warehouse operators facing recurring paycheck disputes caused by manual timecard miscalculations.
- Technical Engineering:** Designed a robust local SQLite architecture with minute-precise clock-in/out tracking, automated late penalty deductions (5-minute grace tolerance), and 1-tap encrypted PDF/WhatsApp slip exports.
- OTA Security:** Built a native background OTA updater with SHA-256 integrity verification, ensuring seamless updates without Google Play dependency.
- Impact:** Adopted by 100+ shift workers with 100% calculation accuracy and zero server downtime.

Coffee Inc. — Direct-Trade Specialty Roastery Commerce

2025 – Present

Full-Stack Mobile Engineer & UI Architect • Collaborative Initiative

A mobile supply-chain and commerce solution connecting regional Indonesian coffee farmers directly to commercial roasters and consumers with 0% retail markup.

- Apple HIG Ergonomics:** Structured interactive catalog navigation utilizing thumb-zone optimized touch targets (44pt+), tactile haptic triggers, and real-time roast profile graphs.
- Supply-Chain Transparency:** Integrated origin lot verification and direct roaster batch scheduling, eliminating 3–4 predatory middlemen tiers.
- Engineering Excellence:** Clean BLoC state management, automated unit test coverage (100% green), and smooth 60fps animations on low-spec devices.

Antigravity Mobile — Autonomous Mobile DevOps System

2025 – Present

System Architect & Flutter Engineer • System Innovation

An autonomous developer operations client enabling full server control, live terminal streaming, and AI tool execution inspection directly from a mobile device.

- Zero Laptop Dependency:** Engineered standalone Cloud VPS connectivity (24/7) with automated failover to local development machine via Wi-Fi hotspot.
- Ergonomic UI:** Designed an Obsidian AMOLED theme (#08090C) with collapsible thinking drawers and real-time WebSocket tool execution visualizers.
- Reliability:** Integrated remote crash reporter and telemetry, slashing debugging turnaround to under 5 minutes.

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SELECTED ENGINEERING & PRODUCT EXPERIENCE (CONTINUED)

Skolarena — Gamified Collaborative Learning Application

2024 – 2025

Frontend Mobile Developer & Gamification Logic Designer • Academic Team Project

A gamified peer-learning mobile application designed to increase student motivation and retention in difficult computer science subjects.

- Gamified Architecture:** Designed interactive quiz arenas, streak progress trackers, and real-time peer leaderboard synchronization via WebSockets (<80ms latency).
- Team Leadership:** Collaborated with 4 cross-functional students (backend, UI design, database), standardizing Git branching workflows and component architecture.
- Measured Impact:** 40% increase in weekly quiz completion rates among campus trial cohorts; praised for low cognitive friction.

Automated Career Aggregator & Intelligent CV Builder Platform

2023 – 2024

Full-Stack Engineer & Automation Specialist • Project Initiative

A multi-profile web platform with automated WhatsApp scraping, intelligent job parsing, and pixel-perfect dynamic PDF generation.

- Engineered Python/FastAPI automation scrapers parsing unstructured job postings from regional messaging communities into structured JSON datasets.
- Implemented dynamic ATS-compliant PDF generation and real-time previewing, helping 50+ job-seekers craft professional applications.

PUBLISHED TECHNICAL RESEARCH & ENGINEERING THOUGHT LEADERSHIP

Published peer-accessible engineering essays at lukmanhakim.id/articles/ combining technical depth with human-centered advocacy:

1. Penerapan Challenge-Based Learning (CBL) dalam Rekayasa Aplikasi Mobile

Published at: lukmanhakim.id/articles/challenge-based-learning-mobile-engineering.html

A rigorous case study breaking down Apple's Engage → Investigate → Act framework applied to Sesaat Segari. Discusses frontline empathy, participatory design with blue-collar workers, and building resilient software that restores dignity and wage clarity.

2. Menyelami Apple Human Interface Guidelines: Ergonomi Mikro yang Menentukan Keberhasilan UX

Published at: lukmanhakim.id/articles/human-interface-guidelines-apple-mobile-ux.html

Detailed exploration of Apple HIG philosophy. Analyzes physiological thumb zones, minimum 44pt touch targets, tactile haptics, WCAG 2.1 accessibility standards, and fluid gesture physics that make digital interactions feel calm and natural.

3. Membangun Arsitektur Mobile Resilien: Sinkronisasi Cloud VPS 24/7 dan Local Failover

Published at: lukmanhakim.id/articles/arsitektur-mobile-resilien-cloud-vps.html

Engineering breakdown of Antigravity Mobile's distributed architecture. Covers background task isolates, secure SHA-256 OTA delivery, crash telemetry pipelines, and bi-directional failover between remote cloud servers and local edge runtimes.

LEADERSHIP, FIELD EXPERIENCE & COMMUNITY

Agricultural Logistics & Operational Quality Lead

2020 – 2024

Family Agricultural Enterprise • Kampar, Riau

- Led harvesting, quality grading (Quality Check), and transport logistics for agricultural commodities under rigorous outdoor physical conditions.
- Developed deep empathy for manual laborers, disciplined physical endurance, and strong organizational accountability that now directly informs my user-centered software engineering approach.

Peer Mentor & Campus Tech Contributor

2024 – Present

Information Systems Study Circle • Universitas Pamulang

- Mentored junior undergraduates in foundational mobile programming, version control with Git, and system analysis principles.
- Promoted best practices in clean architecture, open-source documentation, and empathy-driven software design.

WORK ETHICS & INTERDISCIPLINARY VALUES

- Relentless Curiosity & Growth Mindset:** Transitioned from non-traditional high school equivalency to academic top-tier (GPA 3.85) and full-stack mobile engineering through sheer self-discipline and perseverance.
- Authentic User Empathy:** Firm believer that code is only as valuable as the human friction it resolves. Dedicated to spending time in the field with users before writing a single line of architecture.
- Collaborative Spirit:** Thrives in diverse, interdisciplinary environments where coders, designers, and domain experts inspire each other toward shared breakthroughs.