



ILYAS LUTFI ABDAT

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SUMMARY

Digital Business student and multidisciplinary developer with hands-on experience in full-stack web development, IoT integration, graphic design, and IT support. Experienced in developing a production ERP and PWA for financial, HR, POS, and operational management, including ESP32-based biometric attendance integration. Strong understanding of technology, business processes, and digital transformation.

WORK EXPERIENCE

Administrator, Graphic Designer & Internal Systems Developer, TB. Kurnia Utama 2020 - Present

- Manage administrative operations and business records for daily business activities.
- Designed and developed an integrated ERP and PWA management system for financial, HR, POS, inventory, purchasing, and operational workflows.
- Implemented financial dashboards, accounts payable, payroll, attendance, analytics, offline synchronization, and business automation.
- Developed an ESP32-based biometric attendance device with fingerprint authentication, integrated directly with the ERP's HR and payroll system.

Freelance Graphic Designer, Video Editor & IT Support, Orange Sport Center 2021 - Present

- Create graphic materials such as posters, event visuals, and social media content.
- Edit promotional and event videos based on client requirements.
- Provide IT support including troubleshooting systems, maintaining network stability, and handling technical issues during events.
- Collaborate with management to meet visual and technical needs for various projects.

Data Analyst, Brani Export Import (Internship) 2024

- Collected, organized, and analyzed internal business data.
- Helped prepare reports to support operational decisions.

System Administrator, SMA PENA (Internship) 2019

- Assisted in managing school computer systems and local network maintenance.
- Supported daily IT operations and technical troubleshooting for teachers and staff.
- Helped ensure system stability during school activities as part of the internship program.

EDUCATION

Universitas Ibn Khaldun Bogor 2023 - Present

- Bachelor's Degree (S1) in Digital Business
- Studying modern business systems, digital marketing, entrepreneurship, and information technology.
 - Developing understanding of business strategy, analytics, and digital transformation.
 - Engaged in academic and practical projects related to digital innovation.

SMKIT PESAT 2018 - 2020

- Full-Day School
- Majored in multimedia and digital technology.
 - Built foundational skills in graphic design, video editing, and creative software.
 - Participated in technology-focused school projects and creative activities.

SELECTED PROJECTS

Kurnia Utama, Financial ERP & PWA Management System

Full-Stack Developer

Tech: React 19, TypeScript, Vite, Tailwind CSS, Supabase, PostgreSQL, Vercel, PWA, IndexedDB

- Built 20+ ERP pages/modules covering real-time financial dashboards, POS, inventory, logistics, accounts payable, cash management, payroll, and attendance.
- Implemented dynamic RBAC and Supabase Row Level Security (RLS) with protected routes and access-control workflows.
- Developed an offline-first PWA using Service Workers and IndexedDB with optimistic updates, automatic synchronization, and Web Push notifications.
- Built serverless automation with Supabase Edge Functions for invoice reminders, scheduled backups, and payroll processing.
- Implemented multiple forecasting models with MAPE/MAE evaluation, plus an ESP32 fingerprint attendance system integrated with HR/payroll.

Halméra.co, Corporate & Export Catalog Platform

Full-Stack Web Developer (Freelance)

Tech: Next.js 16, React 19, TypeScript, Tailwind CSS, Neon PostgreSQL, Vercel

- Built and shipped a production corporate and export catalog platform with 12 bilingual public pages, 15 admin pages, and 24 API routes.
- Developed a custom inline visual CMS, allowing administrators to edit text and images directly from live pages with automatic database persistence and cache/CDN revalidation.
- Built an admin platform featuring product CRUD, TipTap-based content management, image optimization, promotional A/B testing, inquiry management, CSV export, and database backup/restore.
- Implemented secure authentication using HTTP-only JWT cookies and Argon2id, alongside honeypot and IP-based rate limiting for inquiry protection.
- Integrated consent-aware GA4 analytics, custom conversion events, and a technical SEO system including sitemap, robots, JSON-LD structured data, and dynamic Open Graph generation.

ADDITIONAL INFORMATION

- **Web & Software Development:** React, Next.js, TypeScript, JavaScript, HTML5/CSS3, Tailwind CSS, Vite, PostgreSQL, Supabase, Neon, REST APIs, PWA, IndexedDB, Git, Vercel
- **Domain Expertise:** Web Management Information Systems (SIM), Interactive Dashboards, HR & Biometric Attendance Systems, POS, Financial Data Management
- **IoT & Hardware Integration:** ESP32, Fingerprint & Biometric Sensors, IoT-to-Web Architecture, Hardware & Software Troubleshooting
- **Design & Multimedia:** Adobe Photoshop, Illustrator, Premiere Pro, After Effects, CorelDRAW
- **Certifications:** Adobe Certified Professional (2020)
- **Languages:** Indonesian (Native), English (Working Proficiency / Conversational)