

AHMAD SUTIAWAN

Sr. IT Supervisor | Industrial IT Infrastructure, Cloud Operations & Fullstack Engineering

Architecting End-to-End Enterprise IT Ecosystems, Multi-Site Industrial Infrastructure & Cloud Automation

Location: Serang, Banten, Indonesia	WhatsApp: 085772747891	Email: ahmadsutiawan.dev@gmail.com
Web Portfolio: ahmadsutiawan.site	Experience: 5+ Years Industrial IT Leadership	Status: Active IT Executive & Lead Architect

98.9%	13+	9	300+
ENTERPRISE UPTIME	CLOUD SERVICES MANAGED	VPS AUTO-BACKED UP	CCTV ENDPOINTS MANAGED

EXECUTIVE PROFILE

Versatile, results-driven Sr. IT Supervisor and Lead Architect with 5+ years of progressive experience orchestrating the full lifecycle of industrial IT infrastructure, full-stack software development, and DevOps operations. Expertly bridges high-level operational strategy with hands-on technical execution—shipping complex enterprise web ecosystems, architecting resilient multi-site industrial networks, and automating cloud infrastructures to ensure zero operational downtime in high-demand manufacturing environments.

Core Capabilities: On the infrastructure side, designs segmented high-availability networks utilizing fiber-optic and PtP wireless backbones with Cisco ASA perimeter security, deploys localized dual OpenMediaVault data centers, and engineers centralized multi-entity Bash backup pipelines across 9 production VPS servers. On the software side, builds robust enterprise web platforms—including full-scale Laravel manufacturing ERPs (PPIC to dispatch), Django IT governance systems, SAP Business One pipeline monitors (Python/Pandas), executive data reconciliation engines, and gamified HR point reward systems backed by RBAC and enterprise audit logging.

TECHNICAL STACK & CORE COMPETENCIES

Strategic & Leadership:

- Digital Transformation & IT Infrastructure Budgeting
- IT Governance, SOPs & Project Management
- SLA & Vendor Negotiation
- Cross-Functional Alignment & Team Coaching

Software Engineering:

- Python, Django (Monolith & DRF), Laravel
- Next.js / React, HTMX & Alpine.js
- RESTful APIs, Pandas, Tailwind CSS & Bootstrap
- PostgreSQL & MySQL

DevOps & Cloud Ops:

- Linux (Ubuntu), Docker Containerization
- Google Cloud Platform (GCP) & VPS Administration
- Nginx Web Server, Bash Scripting, Cron Automation
- Terraform, CI/CD Pipelines (Azure DevOps)

Network, Security & Enterprise:

- Fiber Optic & PtP Wireless, Cisco ASA Firewall
- Fortinet, MikroTik RouterOS, VLAN & VPN Tunneling
- OpenMediaVault (NAS), Dual-ISP Failover
- 300+ IP/Analog CCTV Endpoints
- SAP Business One, Accurate ERP, RBAC & Audit Logging

PROFESSIONAL EXPERIENCE

Sr. IT Supervisor — PT Baja Perkasa Sentosa

Mar 2026 – Present | Serang, Banten

- Executive Technology Leadership:** Direct long-term IT strategy, annual roadmaps, SOP creation, and digital transformation for a multi-site heavy steel-manufacturing enterprise.
- Team Management & Coaching:** Mentor and direct the IT engineering team, assigning clear ownership across fullstack software, industrial networks, and cloud operations workstreams while serving as Tier 3 escalation.
- Production Platform Portfolio Governance:** Architect and govern 9 live production platforms including custom Laravel manufacturing ERP, Django IT stock administration, SAP Business One pipeline monitoring, employee rewards, and C-suite financial reconciliation.
- Enterprise Systems Integration:** Engineer automated data pipelines connecting SAP Business One and Accurate ERP to web dashboards, implementing stuck-PR bottleneck detection and cross-unit discrepancy checks.
- Multi-Site Industrial Network Architecture:** Oversee high-availability network perimeters across complex plant terrain utilizing fiber-optic and point-to-point (PtP) wireless backbones, Cisco ASA firewalls, dual-ISP failover, and strict VLAN segmentation between office and plant operations.
- Cloud Operations & Infrastructure Hardening:** Administer 13+ production cloud/VPS entities end-to-end, enforcing Nginx reverse proxy hardening, Dockerized deployments, GCP operations, and zero-downtime maintenance procedures.

Sr. IT Supervisor — PT Baja Perkasa Sentosa (Continued)

Mar 2026 – Present | Serang, Banten

- **DevOps & Disaster Recovery Pipeline:** Standardize CI/CD pipelines (Azure DevOps) and engineer automated multi-entity Bash backup scripts running daily incremental MySQL dumps across 9 VPS servers centralized on a dedicated Ubuntu server.
- **Sustained SLA Excellence:** Maintain 98.9% sustained enterprise uptime across core ERP systems, database platforms, and mission-critical manufacturing applications.
- **Physical Security & Data Governance:** Supervise 300+ CCTV endpoints across 3 steel manufacturing plants and manage dual OpenMediaVault local data centers with strict RAID and user access permissions.

IT Supervisor — PT Baja Perkasa Sentosa

Mar 2024 – Feb 2026 | Serang, Banten

- **Supervisory Promotion:** Promoted to lead the IT Specialist team, taking complete ownership of software delivery, industrial networking, vendor SLA management, and cloud infrastructure.
- **Fullstack System Delivery:** Designed and shipped key Django applications (End-to-End IT Stock System, SAP Procurement Pipeline Monitor, BPS Point Rewards with RBAC/audit logs, Executive Reconciliation Engine).
- **ERP Manufacturing Expansion:** Expanded the custom Laravel manufacturing system to cover PPIC demand planning, PO workflows, production execution, raw-material inbound ledgers, and outbound sales dispatch tracking by vehicle plate.
- **Backup Pipeline Automation:** Built shell-based automated backup routines across 9 independent VPS production instances with structured date-based archiving and rapid restore playbooks.
- **Cloud & DevOps Adoption:** Introduced Docker containerization and CI/CD pipelines, replacing manual server edits with repeatable, version-controlled releases.
- **Budgeting & Vendor Relations:** Managed IT procurement, vendor negotiation, and contractor scoping to optimize technology expenditure while meeting operational targets.

IT Specialist — PT Baja Perkasa Sentosa

Feb 2022 – Mar 2024 | Serang, Banten

- **Industrial Network Engineering:** Designed and deployed fiber-optic backbones and PtP wireless bridges for steel plant facilities, implementing Cisco ASA firewalls, dual-ISP failover, and VPN access.
- **On-Prem Data Centers:** Built two localized OpenMediaVault storage servers from zero, establishing shared folder governance, user quotas, and backup routines for two steel manufacturing companies.
- **Manufacturing Web App Initialization:** Initiated the foundation of the internal Laravel manufacturing system to digitize inventory and production records.
- **Cloud Administration:** Managed provisioning, security policy, and uptime for 13+ cloud service instances on Linux/VPS.

IT Operations Support — PT Baja Perkasa Sentosa

Jul 2021 – Feb 2022 | Serang, Banten

- Provided Tier 1/2 hardware, software, and network troubleshooting across manufacturing plant and corporate office users.
- Administered user accounts and access databases with role-based permissions (RBAC), establishing early authorization standards.
- Assisted in initial physical network cabling, switch configurations, and storage server setup.

Warehouse Sparepart Specialist — PT Golden Harvest Cocoa Indonesia

Jan 2018 – Apr 2021 | Serang, Banten

- Managed receiving, storage, issuing, and stock documentation for cocoa processing plant spare parts and maintenance equipment.
- Maintained rigorous inventory accuracy through routine physical stock checks, item labeling, and organized placement.
- Coordinated closely with purchasing and maintenance departments to ensure operational availability of critical factory components.

KEY END-TO-END ENTERPRISE PROJECTS DELIVERED

Integrated Manufacturing Production System (FULLSTACK ERP)

Project Manager & Lead Architect | 2022 – Q1 2026

A comprehensive multi-module internal manufacturing web ecosystem covering PPIC forecasting through purchasing, production execution, inventory ledgers, and outbound dispatch.

- **Modules:** PPIC demand forecast, PO/Booking workflows, Production execution tracking, Inbound raw material intake, and Outbound dispatch dashboard featuring real-time monitoring by vehicle police plate.
- **Architecture:** Deployed on Ubuntu VPS with Nginx, MySQL, and automated CI/CD release pipelines.
- **Impact:** Unified PPIC, procurement, production, and logistics into a single source of truth, providing total visibility from raw material arrival to final product dispatch.

Tech Stack: Laravel, Bootstrap, Sass, MySQL, Nginx, CI/CD, Ubuntu VPS

End-to-End IT Department System (FULLSTACK DEVOPS)

Lead Developer & DevOps Engineer | 2025 – Present

A Django platform orchestrating the complete internal stock lifecycle and IT operational management with automated reporting and containerized deployment.

- **Features:** PR-to-movement stock flow, daily/monthly inventory reporting dashboards, asset lifecycle tracking, IT policy administration, and customizable CRUD panels with CSV/Excel exports.
- **Deployment:** Fully Dockerized deployment running on Linux with Nginx reverse proxy and PostgreSQL.
- **Impact:** Replaced fragmented manual stock logs with an auditable, automated stock flow and reproducible Docker releases.

Tech Stack: Django, Python, Docker, PostgreSQL, Nginx, Linux

Purchase Document Pipeline Monitor (SAP B1 - DATA PROCUREMENT)

Fullstack Developer & Data Engineer | 2026 – Present

A web application tracking the complete procurement pipeline (PR/PO/GR/PI/AP) by processing and enriching SAP Business One data exports.

- **Features:** Ingests SAP B1 Excel reports, enriches data with document aging metrics, surfaces interactive filtering dashboards, and features automated stuck-PR detection alerts.
- **Impact:** Eliminates manual SAP Excel reconciliation and alerts management to delayed PRs before supply chain bottlenecks occur.

Tech Stack: Python, Django, Pandas, SAP Business One, PostgreSQL

BPS Point Rewards Gamification Platform (FULLSTACK GAMIFICATION)

Fullstack Developer & Lead Architect | 2026 – Present

An employee gamification platform converting KPI achievements into redeemable point tiers with automated PDF voucher generation and HR administration.

- **Features:** 5-tier progression (Bronze to Diamond), auto-generated PDF vouchers emailed directly to HR, session authentication, and enterprise audit logs recording all CRUD/login metadata.
- **Integration:** Designed modularly as a subpath app inside the parent "Web Center" central portal.
- **Impact:** Automated employee reward fulfillment and created a transparent, fully auditable performance incentive loop.

Tech Stack: Django, HTMX, Tailwind CSS, MySQL, openpyxl, WeasyPrint PDF

Executive Data Reconciliation System (DATA ANALYTICS)

Software Developer | Q4 2025

Programmatic financial and transactional reconciliation engine built for executive review to detect cross-unit operational discrepancies.

- **Impact:** Reconciles multi-database records dynamically to prevent duplicate entries and report daily operational health metrics to executive leadership.

Tech Stack: Python, Django, Advanced SQL, PostgreSQL

Multi-Site Industrial Internet, Storage & Security Infrastructure (INFRA NETWORK SECURITY)

Infrastructure & Security Architect | 2021 – Present

- **Industrial Internet Infrastructure:** Deployed hybrid fiber optic and PtP wireless AP backbones across difficult steel plant terrain, secured by Cisco ASA firewalls, dual-ISP failover, and office/production VLAN segmentation.
- **300+ Endpoint Multi-Site CCTV:** Expanded site-wide surveillance across 3 steel manufacturing facilities mixing IP and legacy analog feeds with NVR centralized recording and zero operational downtime.
- **Dual OpenMediaVault Data Centers:** Built two localized NAS storage environments with RAID protection and department permissions for two steel companies.
- **Multi-Entity MySQL Backup Pipeline:** Created automated daily incremental MySQL backups across 9 production VPS servers, centralized onto an Ubuntu server with automated Cron execution and verified recovery playbooks.
- **Impact:** Established an indestructible hardware and data foundation across multiple factories with 98.9% uptime guarantees.

EDUCATION, CERTIFICATIONS & LANGUAGES

Education:

Bachelor of Information Technology / Computer Science

- Software Engineering & SDLC
- Network Architecture & Security
- Information Security & Cryptography
- Database Management Systems (DBMS)

Professional Certifications:

- Google IT Support Professional — Google / Coursera (2023)
- Google Cybersecurity Professional — Google / Coursera (2023)
- IBM Cloud Computing Practitioner — IBM / Coursera (2023)
- Microsoft Security Foundations — Microsoft / Coursera (2023)

Languages:

- Bahasa Indonesia: Native / Bilingual
- English: Professional Working Proficiency
- Arabic: Professional Working Proficiency