DICKY FAISAL DRAMAR

Senior Software Engineer · Backend & Data Engineering

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PROFESSIONAL SUMMARY

Senior Software Engineer with 6+ years of experience building enterprise backend systems and data pipelines for major Indonesian state-owned enterprises (BUMN) and government institutions, including Pertamina, BPJS, AirNav Indonesia, Biofarma, and Pegadaian. Led backend development teams delivering 10+ production applications across oil & gas, healthcare, aviation, and financial services. Specialized in Python (Django, FastAPI), Ruby on Rails, PostgreSQL, and large-scale data migration and change data capture (Apache Airflow, Debezium). Certified PostgreSQL Developer (CPSDBD) and Google-certified in AI and Advanced Data Analytics; delivered technical training to 101 professionals.

PROFESSIONAL EXPERIENCE

Software Engineer | PT Sigma Cipta Caraka (Telkomsigma), Jakarta *Apr 2020 – Present*

- Led backend development teams delivering 10+ enterprise applications for Indonesian state-owned enterprises and government institutions, serving user bases of up to 5,000 end users.
- Designed and implemented data migration and change data capture (CDC) pipelines with Python, Apache Airflow, and Debezium, migrating over 10 million records across healthcare and telecommunications projects with automated integrity validation.
- Developed data tokenization scripts integrated with Thales HSM for an enterprise data security initiative at Pertamina.
- Optimized application and database performance, reducing average response times by roughly 40% across key services.
- Built and maintained HRMS/HCIS platforms managing records for 20,000+ employees, including payroll, attendance, and performance evaluation modules.
- Delivered an intensive training program to 101 professionals across departments for the AirNav talent management system rollout.

On-Site Engineer | PT Sigma Cipta Caraka (Telkomsigma) *Jun 2019 – Apr 2020*

- Automated recurring business processes at client sites, substantially reducing manual workload for operations teams.
- Implemented EDC dashboard solutions for real-time monitoring of 5,000+ gas stations nationwide.
- Developed a Telegram bot automating software license management, including Excel processing, encryption, and automated delivery.

Laboratory Assistant | Telkom University — Enterprise System Engineering Lab *Jan 2018 – Aug 2018*

- Mentored students in algorithm design and programming fundamentals; developed curriculum materials for enterprise systems courses.

TECHNICAL SKILLS

Languages: Python, Ruby, SQL, PHP, JavaScript, R

Backend Frameworks: Django, FastAPI, Ruby on Rails, Laravel

Data Engineering: Apache Airflow, Debezium (CDC), Apache NiFi, ETL & large-scale data migration

Databases: PostgreSQL, SQL Server, Redis, database administration & query optimization

Cloud & DevOps: Google Cloud Platform, AWS, Docker, Linux server administration

Security: Thales HSM integration, data tokenization, encryption APIs

Frontend (working knowledge): Vue.js, React

KEY PROJECTS

Data Migration & Change Data Capture Platform — BPJS Healthcare *2024*

Designed and implemented a data migration platform with real-time CDC, moving millions of healthcare records from legacy systems with automated validation and reconciliation.

Tech: *Python, Apache Airflow, Debezium, SQL Server, PostgreSQL*

Data Tokenization System — PT Pertamina *2024*

Developed the tokenization scripts for an enterprise data security solution, integrating with Thales HSM to tokenize sensitive data at scale.

Tech: *Python, FastAPI, Thales HSM, encryption APIs*

Integrated Talent Management System — PERUM LPPNPI (AirNav Indonesia) *2023 – Present*

Built a comprehensive HRMS for air traffic navigation personnel with performance analytics, multi-rater evaluations, and automated workflows; led the rollout training for 101 users.

Tech: *Python, Django, Vue.js, PostgreSQL, Redis, MinIO*

Human Capital Information System — PT Pegadaian *2022*

Developed an enterprise HCIS managing records for 20,000+ employees, covering automated payroll, attendance tracking, and business trip management.

Tech: *Python, Django, Vue.js, PostgreSQL*

SPBU Digital Monitoring System — PT Pertamina *2019 – 2020*

Contributed to an IoT-enabled monitoring platform covering 5,000+ gas stations nationwide, with real-time device monitoring and sales analytics dashboards.

Tech: *React, Apache NiFi, SQL Server*

Halalin — Halal Registration System — Halal Indonesia Certification *2025*

Built a web application managing halal certification workflows with BPJPH API integration and automated background processing.

Tech: *Ruby on Rails, PostgreSQL, Sidekiq*

ADDITIONAL PROJECTS

- Telkominfra Data Migration Tool (2024) — custom migration tooling for legacy-to-modern system transitions with progress monitoring. Python, FastAPI, SQL.
- PNM Integrated Talent Management System (2022–2023) — full-cycle HRMS with talent classification and employee mutation tracking. PHP, Laravel, Vue.js, Docker, PostgreSQL.
- Biofarma Vaccine Distribution Management (2021) — nationwide vaccine logistics platform with real-time tracking and cold chain monitoring. PHP, Vue.js, PostgreSQL.
- HCIS Pelindo III (2022) — employee training and advancement management for port operations. PHP-Slim, PostgreSQL.
- LiSA License Management Bot (2019) — Telegram bot automating license distribution with encryption and Excel processing. Python, Telegram API, GCP.

CERTIFICATIONS

- Certified PostgreSQL Developer (CPSDBD) — PostgreSQLCert / CertFirst (Dec 2025, valid through 2027)
- Certified PostgreSQL Developer Training — Multimatics, Jakarta (Jul 2025)
- Google AI Professional Certificate — Google / Coursera (2026)
- Google Advanced Data Analytics Specialization — Google / Coursera (2025)
- Google Data Analytics Professional Certificate — Google / Coursera (2023)
- AWS Cloud Practitioner — Amazon Web Services
- Microsoft Cloud Server Administration — ITB
- Python Programming — Kaggle

EDUCATION

Bachelor of Engineering, Industrial Engineering | Telkom University, Bandung *2014 – 2018*

GPA 3.32 — specialized in process optimization and enterprise system integration.

SPEAKING & TRAINING

- Technical Trainer, Integrated Talent Management System — AirNav Indonesia (Dec 2023): intensive program for 101 professionals covering system architecture, workflows, and operational best practices.
- Guest Speaker, Industrial IoT Implementation — Telkom University (Aug 2023).
- Guest Speaker, Information Systems in Industry — Telkom University (Mar 2023).

LANGUAGES

Indonesian (native) · English (professional working proficiency)