

SOFTWARE ENGINEER FOR BUSINESS OPERATIONS

# Muhammad Hifzhan Silmi

I turn manual workflows, scattered data, and hard-to-track operations into reliable software teams can use every day.

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# I start with how the business works—not with a framework.



I am Akhdan, a Software Engineer based in Indonesia. I help teams replace fragmented spreadsheets, repetitive administration, and unclear handoffs with systems that make daily work easier to follow and control.

My work begins by understanding the people, rules, and decisions behind an operation. From there, I shape the workflow, build the product, launch it, and stay involved when the system meets real users.

**5 years**

turning real  
operations into  
software

**40,714**

recruitment  
accounts  
supported

**807**

event participants  
managed

**2024—Now****PT Agrinas Jaladri Nusantara (Persero)**

Business applications for recruitment, finance, HR, budgeting, projects, reporting, and connected operations.

**2024—2025****Pusdatin, Kementerian Pekerjaan Umum**

Public CSIRT portal, content administration, protected assessment workflows, and service support.

**2023****PT Mobility Doctor Indonesia**

Services supporting connected automotive web and mobile product experiences.

**2021—Now****Independent projects**

Digital products for construction, live events, education, and organizational operations.

# Where software can make the work easier to run.

I work best with teams that have outgrown manual processes and need a system shaped around how their operation actually works.

## WORKFLOW DIGITALIZATION

### Replace fragmented manual work

|                    |                       |
|--------------------|-----------------------|
| Approval processes | Forms & records       |
| Document handling  | Recurring tasks       |
| Audit history      | Spreadsheet migration |

## MANAGEMENT VISIBILITY

### Make operations easier to see

|                    |                      |
|--------------------|----------------------|
| Dashboards         | Progress tracking    |
| Shared information | Search & filtering   |
| Reports & exports  | Decision-ready views |

## PEOPLE OPERATIONS

### Improve high-volume journeys

|                   |              |
|-------------------|--------------|
| Recruitment       | Registration |
| Assessment stages | Attendance   |
| Notifications     | Self-service |

## CONNECTED SYSTEMS

### Keep information moving

|                      |                      |
|----------------------|----------------------|
| Existing systems     | Business messaging   |
| File storage         | Data synchronization |
| Third-party services | Secure access        |

## RELIABLE DELIVERY

### Own the journey end to end

|                     |                 |
|---------------------|-----------------|
| Process discovery   | Solution design |
| Product development | Data migration  |
| Deployment          | Ongoing support |

## TECHNICAL FOUNDATION

### Built for real production use

|                    |                    |
|--------------------|--------------------|
| Laravel & PHP      | React & TypeScript |
| MySQL & PostgreSQL | Redis & queues     |
| Linux & Nginx      | REST APIs          |

# Enterprise Operations Platform

One connected platform that helps finance, HR, budgeting, and project teams manage daily operations with clearer ownership and approval trails.

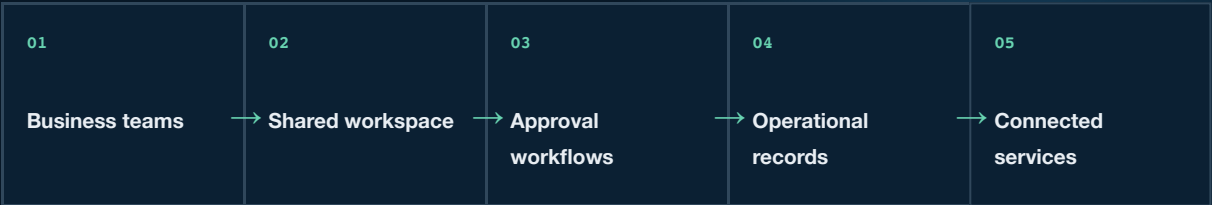
BUSINESS CONTEXT

Several business units rely on the platform to manage work that crosses teams, roles, documents, and approval levels. Each process has its own rules, but leaders still need a consistent view.

MY ROLE

Software Engineer · 2024—Present

Understand the procedure, translate it into a connected workflow, launch the solution, and support changing operational needs.



Production screens, credentials, internal endpoints, financial data, employee records, and operational documents are intentionally omitted.

- Approvals
- Budgeting
- Project operations
- HR workflows
- Bulk input
- Reports
- Audit history

# Bringing ownership and visibility into long-running workflows.

## BUSINESS CHALLENGE

Important processes were difficult to follow when data, supporting documents, and approval decisions lived across spreadsheets and separate handoffs.

## OPERATIONAL RISK

People can hold overlapping responsibilities, making it easy for work to reach the wrong approver or appear in the wrong queue.

## WHAT I DELIVERED

- ↳ Connected finance, budgeting, project, and personnel procedures.
- ↳ Structured review, revision, and multi-level approval journeys.
- ↳ Bulk input, familiar spreadsheet-style editing, search, and exports.
- ↳ Ongoing support for operational issues, data corrections, and new needs.

## WHAT THE SYSTEM ENABLES

- ↳ A visible history of decisions and revisions.
- ↳ Clearer ownership at every workflow stage.
- ↳ Shared information across connected systems.
- ↳ More practical handling of high-volume records.
- ↳ Role-based access to sensitive work.

## KEY DECISION

### Clarify responsibility first.

I aligned each stage with the person responsible and made the rules behind every status change easier to follow and verify.

## BUSINESS OUTCOME

### Less ambiguity in daily operations.

Teams gained a connected process for approvals, bulk data, documents, and reports, with a stronger foundation for future changes.

Technical foundation: Laravel, MySQL, Redis, object storage, Google integrations, and focused workflow tests.

# Enterprise e-Recruitment Platform

A connected recruitment journey that helps applicants and internal teams manage registration, documents, assessments, and decisions at scale.

**40,714**

registered accounts in the current professional record

**22,176**

active applicants in the current professional record

**Connected**

candidate, document, assessment, and communication history

## WHAT I DELIVERED

The journey from account registration and candidate profiles through applications, selection stages, document review, schedules, notifications, and reporting.

## BUSINESS OUTCOME

Recruitment teams can review candidate history and decisions from one connected process, while applicants receive a clearer and more consistent journey.

Applicant self-service

Multi-stage selection

Protected documents

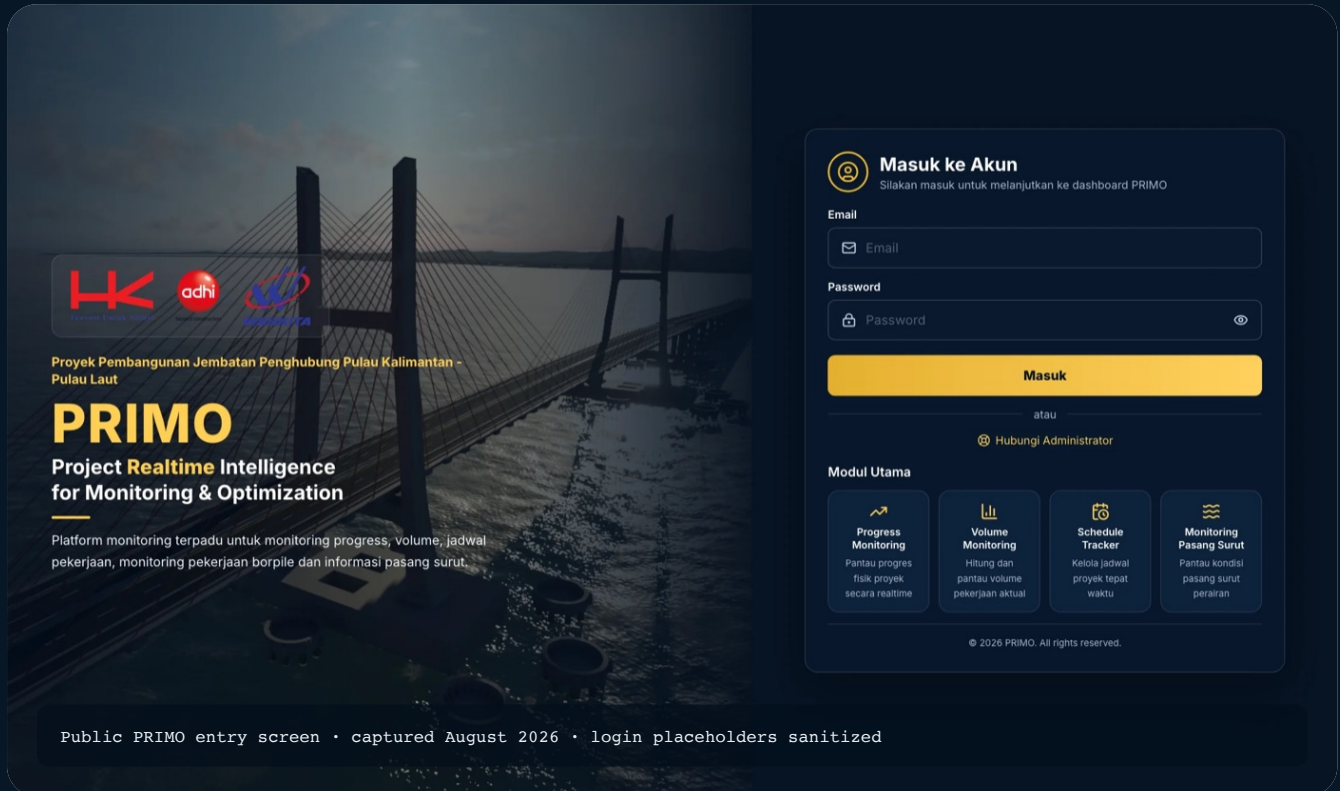
Notifications

Search

Reporting

# PRIMO Construction Monitoring

A construction monitoring system that brings workbook-heavy project information into shared workflows, reviews, and management dashboards.



## BUSINESS CHALLENGE

Project information spread across formula-heavy files made shared access, consistent validation, and an overall view of progress difficult.

## RESPONSE

Keep familiar workbook concepts for initial input, then move recurring records, reviews, and summaries into a shared web system.

16+ workflows

Controlled imports

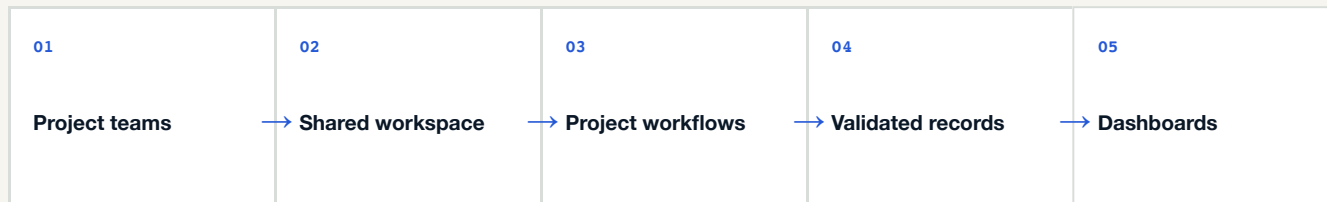
Validation

Review

Dashboards

Reporting

# Keeping familiar construction processes while reducing spreadsheet dependency.



## ACTIVE WORKFLOW COVERAGE

|                                                           |                                                         |                                                         |                                                          |
|-----------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| <b>Kurva S</b><br>Plan, actual, cashflow, monthly summary | <b>Volume</b><br>Baseline, actual, deviation, follow-up | <b>Progress</b><br>Weekly and monthly monitoring        | <b>Schedule</b><br>Activities, milestones, dates, PIC    |
| <b>Tides</b><br>Hourly measurements and heatmap           | <b>Borepile</b><br>Points, phases, daily logs           | <b>Change / RFI</b><br>Changes, requests, submittals    | <b>Risk / issues</b><br>Mitigation and corrective action |
| <b>Safety</b><br>Incident and action records              | <b>Quality</b><br>Inspections and punch list            | <b>Documents</b><br>Control, revisions, confidentiality | <b>Meetings</b><br>Minutes and action plans              |

## WHAT I DELIVERED

- ↳ Translated civil-engineering workbooks into practical web workflows.
- ↳ Implemented controlled Excel imports and web-first recurring input.
- ↳ Created reporting-period dashboards from current project records.
- ↳ Kept labels and validation aligned with familiar domain terms.

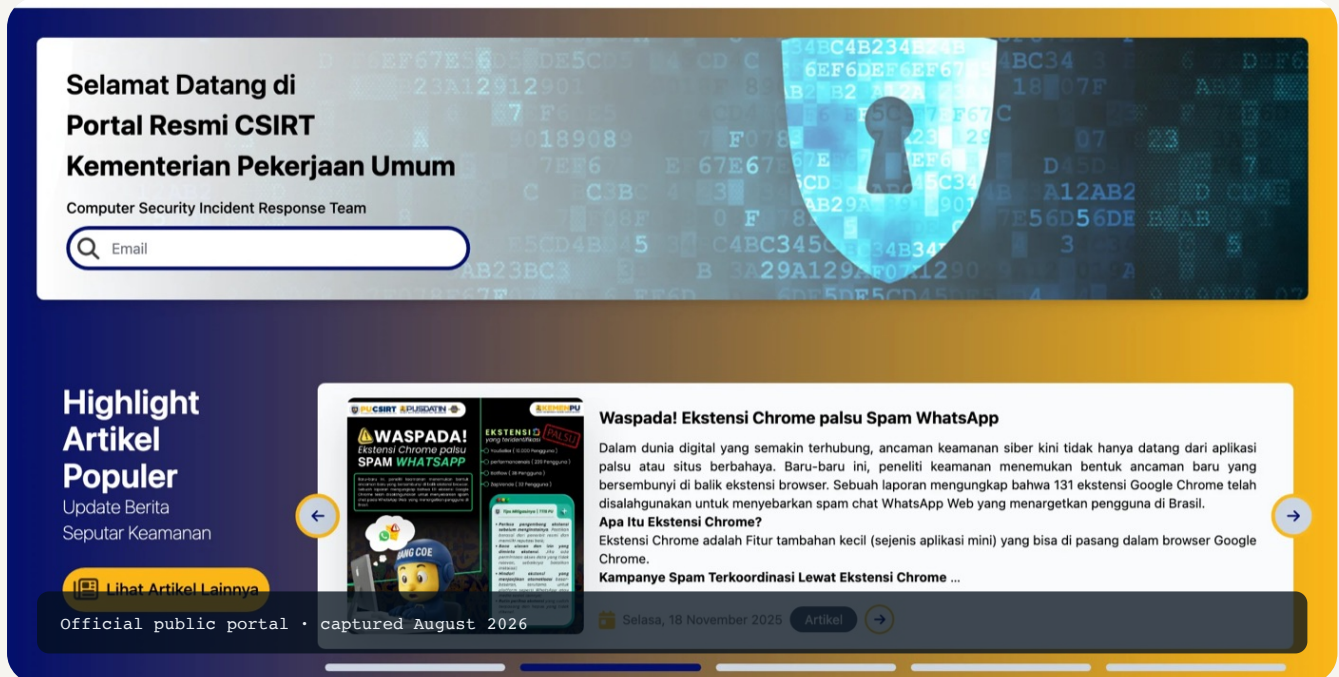
## BUSINESS OUTCOME

- ↳ More than 16 activities follow consistent workflows.
- ↳ Teams share one operational source of project information.
- ↳ Progress summaries come from reviewed application records.
- ↳ The foundation can grow with additional project needs.

Technical foundation: Laravel, React, TypeScript, MySQL, REST APIs, and controlled Excel imports.

# PU CSIRT Platform

A public cybersecurity information portal with protected tools for managing content, application records, and security-assessment work.



## WHAT I DELIVERED

- Public information and content-management workflows.
- Secure, role-based access for internal administration.
- A connected application inventory and assessment workspace.
- Production support across access, deployment, and integration issues.

## WHAT THE PLATFORM ENABLES

- Clear separation of public and protected work.
- Search, sorting, import, and export for internal records.
- Structured security-assessment activities.
- One service across connected public and internal applications.

Public information

Protected access

Content management

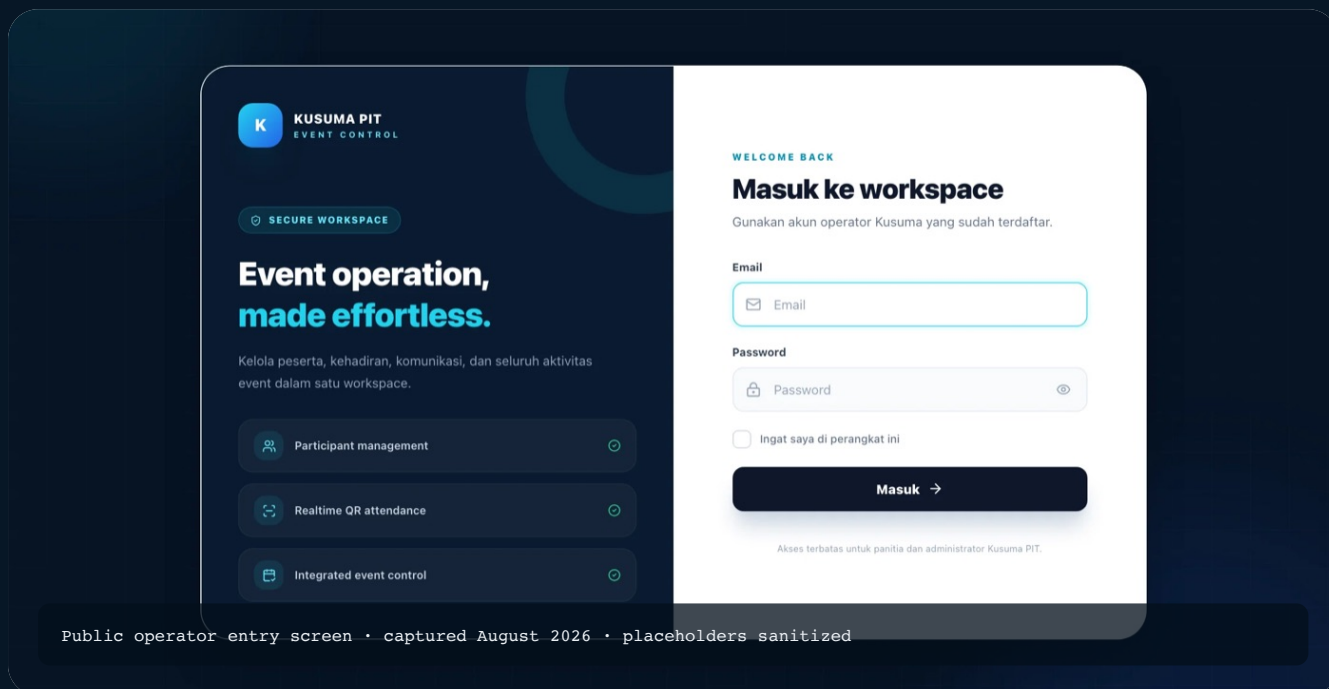
Assessment records

Import / export

Technical foundation: Laravel, Next.js, PostgreSQL, Redis, protected APIs, and production proxy configuration.

# Kusuma Event Operations

One operational system for managing participant registration, QR check-in, communication, ID cards, and item distribution during a live conference.

**807**

conference participants supported

**QR**

credential and attendance workflow

**Live**

deployment and event-day support

**WHAT I DELIVERED**

A connected participant journey from registration to on-site attendance, including QR check-in, digital ID cards, distribution records, and WhatsApp communication.

**BUSINESS OUTCOME**

Staff gained one place to find participants and track attendance, communication, and distribution while serving 807 people during the event.

Registration

QR attendance

Participant records

WhatsApp updates

ID cards

Distribution tracking

# Latest platform work and broader product experience.

## LATEST EDUCATION PLATFORM

### Kusuma Academy

A complete revamp connecting services, courses, articles, member learning, and ongoing content management.

Public website • CMS • member learning • SEO

## TECHNICAL ASSESSMENT

### DOCFLOW

A structured way for teams to submit, review, track, and export documents with a clear history of every decision.

Review workflow • audit history • exports

## INDEPENDENT PROJECT

### Geosentric

Registration, participant dashboards, and online examinations for a national competition with approximately 1,000 participants.

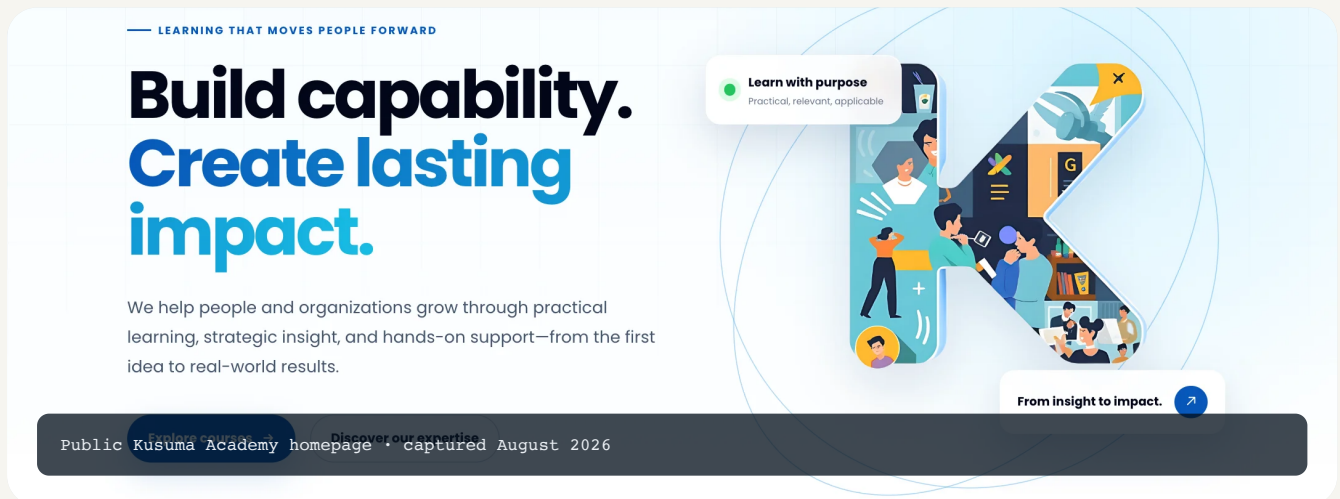
Registration • dashboards • online exams

## PRODUCTION WEBSITE

### KusumaCorp Website & CMS

A public corporate website with an internal content-management workspace for the business team.

Content ownership • SEO • production delivery



**Technical foundation:** PHP, Laravel, Blade, Filament, React, TypeScript, MySQL, PostgreSQL, Redis, REST APIs, Linux, Nginx, Docker, and cloud object storage. The tools support the solution; they do not define it.

# Let's make the operation easier to run.

Tell me where the work gets stuck, repeated, or hard to see. I am open to software projects, product collaboration, and engineering roles where better systems can create practical business value.

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PORTFOLIO

[akhdanhifzhan.pages.dev](https://akhdanhifzhan.pages.dev)

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GITHUB

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LOCATION

Tangerang, Indonesia · UTC+7

Every public claim in this portfolio is supported by current professional records, project documentation, source history, or a verified public service. Metrics are used only where a current record exists. Credentials, private endpoints, candidate data, employee records, and internal production screens are intentionally omitted.