ILHAM FAKHRUDDIN

Product Manager

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SUMMARY

Highly accomplished **Product & Solution Lead** with 6+ years of experience delivering end-to-end digital solutions in **GIS, IoT, AI-powered platforms, and Enterprise dashboards**. Proven expertise in aligning technical execution with business growth, leading cross-functional teams from discovery to deployment. Strong track record in **strategic partnerships, G2M execution, and stakeholder management** for B2B and public sector clients. Driven by clarity and empathy, ensuring every initiative balances real-world constraints with **usability, scalability, and measurable business impact**.

EXPERIENCE & ACHIEVEMENTS

PT MUSA Green — Business Product Manager

Jan 2026 - Present | Environmental Monitoring & Compliance

- Initiated the development of a **3D Spatial Digital Twin for Environmental Dashboard Monitoring**, integrating air quality analytics from AQMS, CEMS, and air dispersion data into a modular command center platform for energy, wastewater, water, and waste monitoring.
- Managed ongoing project delivery for SISPEK, SPARING, and water monitoring systems, ensuring technical execution aligns with environmental compliance standards.
- Executed business growth strategies through cold calling, cold emailing, and hunter activities to drive product adoption and market expansion.
- Facilitated high-level meetings to establish strategic partnerships and collaborative initiatives for product ecosystem development.

PT Tenggara — Product Owner

Oct 2024 – Aug 2025 | Smart Infrastructure, IoT & AI

- Oversaw the full Software Development Life Cycle (SDLC) of 5+ Product including **Webgis Command Center Dashboard, Smart Dashcam, Smartpole, Smart Building Automation, and IoT Water Logger**, ensuring alignment with strategic objectives.
- Guided the team in the CV Dashcam project for JMTO, achieving 30 object detection functionalities and significantly enhancing anomaly detection for potholes, stopped vehicles, overgrown vegetation, and more, while aligning with BPJT SPM regulations.
- Spearheaded the Smartpole 2.0 blueprint, integrating air sensors, CV cameras, public alerts, and analytics.
- Lead cross-functional team collaboration and ensured timely delivery within 4 months, resulting in improved water logger modularity for SCADA integration through R&D collaboration, demonstrating strong project management and Scrum Master.
- Managed Smart Building product integration with smart devices, HVAC, and lighting systems, incorporating electricity monitoring and water monitoring to achieve a 20% average energy efficiency improvement within one year.

PT Bima Sakti Alterra — Associate Product Manager
Jan 2022 – Nov 2024 | Smart Water Grid, WebGIS, IoT

- Lead of delivery 5+ B2B product solutions including **WebGIS**, **Command Center Dashboard, Asset Management, Mobile Tanggap, and Smart Grid Water Management.**
- Successfully introduced products to public sector markets, gaining endorsement from Kementerian PUPR and early-stage adoption in IKN smart utility planning.
- Elevated WebGIS and IoT to become a flagship product with over 10 active PDAM subscribers, generating a new revenue stream for the company.
- Led Agile development cycles, acting as a Scrum Master and Project Manager, and actively facilitating all Scrum ceremonies including Sprint Planning, Daily Stand-ups, Sprint Reviews, and Sprint Retrospectives to ensure efficient product delivery and team alignment.
- Runner in the internal company performance award for 4 cycles.

PT Bima Sakti Alterra — Innovation Product Officer / GIS Specialist
Jan 2020 – Dec 2021

- Functioned as an Innovation Product Officer, overseeing the full SDLC from conception to deployment, and guiding development teams through agile methodologies.
- Supported product development of an integrated WebGIS with IoT and integration with PDAM ERP systems, including billing, payment information, customer location, customer service updates, and more.
- Actively participated in Scrum ceremonies to drive agile product development and ensure timely project milestones.
- Delivered presentations to over 30+ PDAMs, influencing the adoption of 50+ IoT loggers and promoting the vision of a comprehensive WebGIS platform.
- Coordinated internal and external stakeholders with PDAM to ensure smooth and timely implementation of 10+ IoT logger solutions.
- Hosted and spoke at a GIS webinar series with 100+ recurring participants.
- Conducted GIS training for 15+ regional PDAMs and mentored participants in applying spatial data to utility planning.
- Provided sales and technical support during solution pitches and product demos to clients.

HIGHLIGHT PROJECTS - More about my Project Access HERE
Digital Twin Environmental Dashboard — Product Manager
Architected and deployed an Industrial Air Quality Digital Twin leveraging the AERMOD standard modeling tool to provide a high-fidelity Decision Support Tool for multi-tenant industrial park Environmental Health and Safety (HSE) management. The platform integrates real-time CEMS and meteorology data to monitor compliance percentages against regulatory thresholds, utilizing dynamic headroom calculations to ensure environmental sustainability.
Smart Dashcam (2024–2025) — Product Owner
Computer vision dashcam for JMTO with more than 30 object detection(vehicle, traffic, asset) and anomalies such as pothole, vehicle stop, pedestrians on road, damaged asset, and more.
Smart Building Automation (2024) — Product Owner

Developed and installed integrated systems (lighting, HVAC, energy) for PUSDATIN PUPR dashboard.

Smartcity Dashboard – IKN (2024) — Product Owner

Led field deployment of Smartpole and Spatial Command Center Dashboard for IKN project to support Smart City Implementation at IKN.

Smart Water Grid Management – Multiple Cities (2022–2023) — Co-Project Lead

Installed IoT SCADA systems with pressure/flow sensors, AWLR, and dashboard analytics in Yogyakarta, Gianyar, and Parepare to reduce non-revenue water in regional utilities.

EDUCATION

Bachelor of Science (S.Si), Geography

Universitas Negeri Semarang (2014 – 2020)

Focus: GIS, spatial analysis, environmental planning

Activities: GIS training, research assistant

SKILLS & TOOLS

Product & Project: Agile, Scrum, Jira, Confluence, Notion, Product Roadmapping, GTM Strategy

Design & Collaboration: Figma, User Story Mapping, Design Thinking, Prototyping

IoT & Vision: Roboflow, YOLO, MQTT, SCADA, Grafana, Chronograf

GIS & Data: QGIS, ArcGIS, PostGIS, WebGIS, Global Mapper, Avenza Maps

AI & Agentic Tools : Google Antigravity, Openclaw, Hermes Agent, Qwenpaw

Other Tools: Microsoft Office Suite, Google Workspace, ERP Systems, Aermod

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PORTFOLIO

Explore my comprehensive portfolio to review in-depth case studies on Smart Dashcam solutions, specialized WebGIS implementations for regional water utilities (PDAM), and various other strategic Smart City initiatives.

PORTOFOLIO