

Nasywa Ibtisamah

Jakarta, Indonesia

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I have over 6 years of experience in data engineering, system analysis, and end-to-end implementation of business and government applications. I have a proven track record in delivering scalable digital systems, managing and monitoring cross-border remote teams, performing data processing using Python and SQL, and producing technical documentation for enterprise stakeholders based in Indonesia and Singapore. Most recently, I have been focused on developing a national data-driven policymaking system that integrates socioeconomic, spatial, and fiscal data.

EDUCATION

S1 - Information System Department
Information & Communication Technology Faculty
Institut Teknologi Sepuluh Nopember

2015 – 2019

TRAINING AND CERTIFICATION

- **AI Talent Hub Program – UI Incubate, 2025** ([Certificate](#))
Modules: Technopreneurship from Idea to Impact, API Integration, AI Implementation.
- **The Product Management for AI & Data Science Course - Udemy, 2025** ([Certificate](#))
Modules: Business Strategy for AI & Data, Data Management & Product Development for AI & Data
- **Data Scientist Professional Training Program (640 hours) – Practicum, 2023** ([Certificate](#))
Modules: Python, SQL, EDA, Statistical Analysis, Machine Learning (Supervised, Unsupervised, NLP, Time Series, Computer Vision), Linear Algebra, Numerical Methods, Integrated & Final Projects.
- **Product Management Bootcamp – Binar Academy, 2022** ([Certificate](#))
Modules: Product Discovery, Business Process Analysis, User Persona & Journey Design, Stakeholder Collaboration, Roadmap Development, PRD creation, and Sustainable Product Lifecycle.

PROFESSIONAL EXPERIENCE

Australia Indonesia Partnership (AIP) SKALA

Jakarta, Indonesia (Remote)

Database Engineer Consultant

Industry: Public Sector | Client: National Government Ministry (Indonesia)

- Case 1 | May - August 2024
Contributed to the pilot update of Indonesia's Socio-Economic Registry (Regsosek) by preparing product requirement documentation for the village-level data updating module.
Skills: System Analysis, PRD, Prototyping
- Case 2 | October - November 2024
Trained village officers and conducted data checks to ensure data integrity.
Skills: Communications, SQL
- Case 3 | October - December 2024
Engineered aggregated data structures integrating socioeconomic (Regsosek data) and public service datasets, ensuring clean and reliable indicators for leadership reporting.
Skills: SQL, ETL & Pipelines

- Case 4 | December 2024 - February 2025
Developed data models and designed dashboard wireframes to visualize budget execution and performance across spending categories and administrative levels (Province, City).
Skills: SQL, ETL, System Analysis, Prototyping
- Case 5 | February - May 2025
Designed business processes and created interactive mockups connecting socioeconomic and sectoral indicators to recommend targeted interventions in areas such as education, health, and infrastructure.
Skills: System Analysis, PRD, Prototyping, Decision Support System
- Case 6 | June - August 2025
Built geospatial analysis pipelines to compute travel distance and time for 78 million+ household coordinates to nearest public facilities (schools, health centers), enabling national-level accessibility insights and policy planning.
Skills: Python, GIS, ORS, Accessibility Analysis
- Case 7 | September - October 2025
Prepared analytical data marts and cleaned multilevel socioeconomic datasets to support climate-related vulnerability insights and regional planning.
Skills: SQL, Data Warehouse, Data Aggregation

MaivenPoint Pte. Ltd.

Singapore (Remote)

Senior Support Engineer Consultant

Industry: GovTech & Ed-Tech Solutions | Clients: Government & Corporate Clients (Singapore)

- Case 1: March - October 2022
Supported enterprise learning platform implementation for higher-education clients in Singapore. Conducted requirement discovery sessions, translated business needs into functional specifications, and coordinated delivery across cross-border engineering teams.
Skills: System Analysis, Requirement Engineering, Stakeholder Management.
- Case 2: November 2022 - June 2023
Formalized end-to-end product documentation including system architecture references, business process mapping, and UI/UX wireframes for institutional learning workflows. Ensured alignment between client expectations and development outputs.
Skills: Prototyping, Technical Specification Writing
- Case 3: July 2023 - April 2024
Led client communication and change management through go-live and post-launch cycles. Addressed system issues, prioritized enhancements, and ensured stability and user adoption across multiple institutional deployments.
Skills: Go-Live Support, JIRA
- Leadership Responsibility | Throughout Tenure
Mentored junior analysts in requirements gathering and documentation standards. Performed performance feedback cycles and facilitated onboarding for new team members.
Skills: Team Leadership, Coaching, Performance Review

Techub by Binawan Group

Jakarta, Indonesia

System Analyst

Oct 2019 – Feb 2022

Industry: EdTech, Healthcare, Workforce Solutions | Clients: Internal business units & enterprise partners

- Managed and improved several digital products such as Jobshub. id, Binawan Training Centre Online Course, Binawan University Medical Center, Cashier .id.
- Developed, analyzed, prioritized and organized requirement specifications in the form of a Storyboard Document (SBD) for developers and QA to follow. The SBD includes user requirements, scope of work, data structure, business process and UI/UX design.
- Created and presented proposal for external projects.