

Yusriyah Isnaini Mufidah

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Results-driven Software & Analytics Engineer with 3+ years of experience across Full-Stack Web Development, Data Engineering, and Enterprise Business Intelligence. Proven track record architecting modular TypeScript SPAs, engineering high-throughput PostgreSQL stored procedures (PL/pgSQL RPCs), optimizing database query execution plans from 30+ seconds to <1s, and automating complex financial/tax reconciliations (Coretax, AR, Claims). Certified Google Cloud Professional Data Engineer with strong expertise translating complex logistics and financial operations into scalable, high-integrity technical systems

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Python, SQL (PL/pgSQL, ClickHouse SQL), Kotlin, HTML5, CSS3/Sass
- **Frontend Development:** TypeScript SPA, Vite, Bootstrap 5, Tailwind CSS, Responsive Web Design, In-Memory Caching, State Management, Vitest, Playwright
- **Backend & APIs:** Node.js, Supabase (BaaS, PostgREST, RLS, Storage), RESTful APIs, FastAPI, Flask, Google Apps Script (GAS), Webhooks, n8n
- **Data Engineering & Databases:** PostgreSQL (Indexing, Query Optimization, CTEs, Views, RPCs), ClickHouse, Google BigQuery, ETL/ELT Pipelines, OLAP Denormalization, Data Modeling, Change Data Capture (CDC)
- **BI & Analytics:** Power BI (DAX, Data Modeling), Metabase, Tableau, Looker Studio, Financial Audit & AR Reconciliation, Coretax Tax Compliance, KPI Dashboards, Advanced Excel / Google Sheets
- **DevOps, Cloud & Tools:** Google Cloud Platform (GCP), Microsoft Azure, Firebase Hosting (Multi-Site CI/CD), Docker, Sentry APM Tracing & Session Replay, Git/GitHub/GitLab, Jira, Confluence, ClickUp, Figma

WORK EXPERIENCE

PT Jeje Harapan Transindo

Business Intelligence Analyst | Bekasi, Indonesia | Jan 2025 – Present

- Optimized PostgreSQL execution plans across multi-million-row logistics tables by refactoring aggregation CTEs, eliminating inefficient OR-based joins, and implementing composite B-tree indexes, reducing query runtime by >90% from 30+ seconds to <1 second
- Built an automated Accounts Receivable (AR) and invoice reconciliation engine with 40+ dynamic fields and 13 real-time KPI metrics, automating DPP, PPN, and PPh tax calculations and reconciliation across 9 deduction categories
- Designed and executed ELT data models and transformations by consolidating 20+ OLTP tables in ClickHouse, effectively applying dbt-style modular SQL modeling for high-performance reporting
- Developed PL/pgSQL stored procedures, RPCs, and relational views to support financial reconciliation, trip allocation, cost deductions, and audit workflows across hundreds of thousands of logistics records
- Modernized a legacy financial monolith into a modular, type-safe TypeScript single-page application, improving frontend maintainability and application responsiveness through Vite, Supabase/PostgreSQL, and reusable application components
- Engineered an AI-powered WhatsApp operations bot integrated with n8n, PostgreSQL, and Google Gemini to automate field requests and issue classification, reducing classification lead time by 40% and saving 40+ operational hours per month
- Automated Proof of Delivery (POD) document extraction and reconciliation using Python, Pandas, and Playwright, processing 3,700+ documents per cycle, reducing manual processing time by 95%, and achieving 100% data-linking accuracy
- Reduced REST API network roundtrips by >65% by implementing TTL-based client-side caching, parallel asynchronous request batching, and consolidated PostgREST queries
- Developed an end-to-end logistics claim and incident management system with automated liability allocation and a multi-entity debt ledger supporting unpaid, partial, paid, and overpayment settlement states
- Strengthened application security and reliability through role-based access control across 8 user roles, Sentry-based observability, and 52+ automated unit and integration tests using Vitest and Playwright
- Authored Product Requirement Documents (PRDs) for enterprise Transport Management System (TMS) initiatives, translating supply-chain business requirements into technical specifications and aligning product, operational, and engineering workflows

PT Titipbellin Global Internasional

Software Engineer (QA & Product Analytics) | Yogyakarta, Indonesia | Jun 2022 – Jun 2024

- Analyzed e-commerce platform performance and user behavior across SAP FI (Finance), SD (Sales & Distribution), Purchasing, Warehouse Management, and web/mobile apps, identifying and resolving UI/system bottlenecks to boost daily paid product orders by 200 units

- Led business process design and user flow architecture for the 'Titipay' e-wallet project integrated with the Xendit payment gateway, significantly reducing administrative costs, automating manual refund workflows, and mitigating transaction fraud risks
- Managed comprehensive testing and quality assurance workflows, designing 153 UAT test cases, and identifying, tracking, and resolving 420 system defects in close collaboration with core engineering teams to ensure seamless production releases
- Designed intuitive user flows, UI mockups, design systems, and interactive prototypes for Titipbeliin.com and Titipkirim.com web and mobile platforms using Figma, accelerating frontend development handoffs

Bangkit Academy led by Google, GoTo, Traveloka **Machine Learning Engineer Cohort | Feb 2022 – Jun 2022**

- Implemented deep learning and predictive analytics models utilizing Python (TensorFlow, CNN architectures) to address real-world health classification challenges
- Collaborated within an Agile multidisciplinary team to integrate computer vision AI models into a cloud-backed mobile application, earning national recognition as a Top 53 project out of 463 teams across Indonesia

PT Impactbyte Teknologi Edukasi (Skilvul) **UI UX Designer Intern | Aug 2021 – Dec 2021**

- Conducted user research and analyzed user behavior data to identify usability needs and translate insights into wireframes, design systems, and high-fidelity interactive prototypes in Figma.
- Partnered with cross-functional product and engineering teams during sprint planning to validate, test, and iterate user-centric design solutions based on qualitative research and product insights.

Bangkit Academy led by Google, GoTo, Traveloka **Cloud Computing Cohort | Feb 2021 – Jun 2021**

- Deployed and maintained scalable cloud applications on Google Cloud Platform (GCP), managing virtual machine instances, backend operational deployments, and Linux server monitoring (Graduated with a 94.76 average score)

SELECTED PROJECT

FATrack Apps — Enterprise Financial, Accounting & Tax Management System

Tech: TypeScript 5.9, Vite, Bootstrap 5.3 / Sass, Supabase (PostgreSQL 15+, PL/pgSQL RPC, RLS), Firebase Hosting, Vitest, Playwright, Sentry

- Modernized legacy spreadsheet/GAS infrastructure into an enterprise-grade financial Single Page Application
- Implemented high-performance database stored procedures, complex multi-deduction reconciliation arithmetic, live KPI aggregation cards, debt settlement state machines, and multi-unit inventory converters
- Automated CI/CD deployments across isolated staging and production multi-site environments on Firebase Hosting

Automated Bulky Data Importer & Validation Engine

Tech: ToolJet, PostgreSQL (PL/pgSQL, CTEs, LEFT JOIN LATERAL), JSON Parsing, JavaScript

- Engineered an automated bulk-upload data pipeline handling >1,000 logistical rows/week for transporter quotation tiering and additional cost operations, cutting processing SLA from hours to minutes
- Implemented rigorous data quality checks and validation pipelines utilizing PostgreSQL CTEs and LATERAL JOINS, achieving a 0% data defect rate prior to Data Warehouse ingestion, ensuring high data governance standards
- Streamlined UI-to-database transactions by eliminating manual file conversions through dynamic SQL JSON parsing and automated default value injections

JHT ClickHouse Data Warehouse & Metabase OLAP Infrastructure

Tech: PostgreSQL, ClickHouse, Metabase, Docker, SQL (CTEs, Window Functions), Python ETL

- Designed denormalized analytical data models and Materialized Views in ClickHouse to decouple analytical query loads from transactional databases
- Deployed 15+ thematic data collections in Metabase to power real-time executive reporting across Account Manager, Fleet Operations, Accounting, Finance, Sales, and Operational divisions

Hybrid AI Operational WhatsApp Bot & n8n Workflow Automation

Tech: Node.js (Baileys), PostgreSQL, Google Gemini AI, n8n Workflow Automation, Webhooks, Docker

- Architected and orchestrated event-driven data pipelines and webhooks using n8n and Node.js, establishing fundamental orchestration concepts equivalent to Apache Airflow for real-time operational alerts
- Integrated Google Gemini AI for natural language classification to convert unstructured chat queries into structured database records, achieving an 85%+ issue classification accuracy and reducing uncategorized tickets by 40%
- Maintained 99.9% uptime and <2s response latency via Docker containerization, reducing ticket routing lead times by 40% and saving 40+ hours of manual administrative effort per month

UmMeals — Social Impact Nutrition Analytics (Microsoft Innovation Challenge)

Tech: Microsoft Azure, Power BI, DAX, Data Modeling

- Led end-to-end data modeling, DAX measure creation, and interactive reporting for the 'UmMeals' healthcare initiative, presenting data-driven resource allocation insights to executive judges and winning Top 6 Best Group nationally

Project Anya — Stunting Monitoring AI Application

Tech: Kotlin, TensorFlow, Computer Vision, Google Cloud Platform (GCP)

- Developed an AI-driven image classification system that analyzes dietary intake photos and returns nutritional data to monitor maternal and infant health, ranking in the Top 53 out of 463 teams nationally

EDUCATION

Universitas Jenderal Achmad Yani Yogyakarta — Bachelor of Computer Science (Informatics) 2018 – 2022

- **GPA:** 3.88 / 4.00
- **Thesis:** "COVID-19 Case Prediction System in Indonesia Using Linear Regression Algorithm", published in [Teknomatika: Jurnal Informatika dan Komputer](#) (November 2023)
- **Academic & Leadership Roles:** Head of Informatics Student Association (HMIF, 2021); Event Coordinator - Core Team Google Developer Student Club (GDSC 2020); Assistant Lecturer for Basic Programming and Data Engineering, mentored 25+ junior in Google Cloud BigQuery, Data Mining, and Python scripting, fostering team knowledge sharing and best practices in cloud data architecture

CERTIFICATIONS

- **Google Cloud Certified: Professional Data Engineer** – Google (Sep 2026) - [Credential URL](#)
- **Google Cloud Certified: Generative AI Leader** – Google (Jul 2026) - [Credential URL](#)
- **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** - Microsoft (Mar 2024) - [Credential URL](#)
- **Network Security** – Cisco (Oct 2024) - [Credential URL](#)
- **ACA Big Data Certification** – Alibaba Cloud (Sep 2024) - [Credential URL](#)
- **TensorFlow Developer Professional Certificate** – Google (Aug 2022) - [Credential URL](#)