

YUSRIYAH ISNAINI MUFIDAH

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PROFESSIONAL SUMMARY

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.
- **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.

PROFESSIONAL EXPERIENCE

PT Jeje Harapan Transindo

Software Engineer (Data, BI & Enterprise Systems) | Bekasi, Indonesia | Jan 2025 – Present

- **Architected and refactored a legacy financial monolith** into a modular, type-safe TypeScript Single Page Application (FATrack SPA) powered by Vite, Bootstrap 5/ NiceAdmin tokens, and Supabase PostgreSQL BaaS, drastically improving UI responsiveness and system maintainability.
- **Engineered high-throughput PostgreSQL stored procedures (PL/pgSQL RPCs) and relational views** (`get_all_invoice_dashboard`, `get_all_claims_dashboard`, `get_invoice_kpi_counts`), managing complex financial joins, trip allocations, additional cost deductions, and dynamic audit logs across hundreds of thousands of logistics records.
- **Built an automated Account Receivable (AR) & Invoice Reconciliation Engine**

featuring 40+ dynamic columns, 13 live KPI summary metrics, automated tax calculations (DPP, PPN 11%/12%/Free, PPh 2%), and discrepancy reconciliation factoring in 9 deduction categories with strict $|n| < 1$ absolute zero thresholds (eliminating floating-point errors).

- **Optimized PostgreSQL execution plans on multi-million-row tables** (trips, invoices, points) by eliminating unindexed OR join conditions, refactoring aggregation CTEs, and deploying B-tree composite indexes, reducing query runtimes by >90% (from 30+ seconds down to sub-second <1s).
- **Architected denormalized OLAP analytical schemas** (rfp_analytics) consolidating 20+ OLTP tables into 4 high-performance analytical views, and deployed ClickHouse ETL pipelines (jht-clickhouse-etl) with Materialized Views to establish a Single Source of Truth (SSOT) for fleet analytics.
- **Implemented an end-to-end Logistics Claim & Incident Tracking Module** with automated liability burden-splitting algorithms (*Paid by Transporter, Paid by JHT, 70:30, 50:50, Tanggung Renteng*) and a multi-entity Debt Ledger with automated state machine settlements (unpaid, partial, paid, overpay).
- **Reduced REST network roundtrips by >65%** by engineering a client-side in-memory cache manager with TTL expiration, parallel asynchronous request batching (Promise.all), and consolidated PostgREST queries.
- **Enforced enterprise security, observability, and test automation** through strict client-side Role-Based Access Control (RBAC) across 8 user roles, Sentry APM error tracing with reverse-proxy ad-blocker tunneling, and 52+ unit/integration tests with Vitest and Playwright.
- **Engineered an automated AI WhatsApp Bot (bot-wa)** using Node.js, PostgreSQL, and Google Gemini AI to automate field operational requests, reducing issue classification lead time by 40% and saving 40+ hours per month.
- **Automated Proof of Delivery (POD) document extraction** using Python (Pandas, Playwright) and batch scripts, processing 3,700+ documents per cycle with 95% reduction in manual processing time and 100% data linking accuracy.
- **Spearheaded Product Management initiatives** by authoring comprehensive Product Requirement Documents (PRDs) in Jira/Confluence/ClickUp for the enterprise Transport Management System (TMS), aligning technical architectures with supply chain business workflows.

PT Titipbeliin Global Internasional (PT Jastip Andalan Niaga)

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 increase monthly sales by IDR 2.2B and 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 Titipkirimin.com web and mobile platforms using Figma, accelerating frontend development handoffs.

Bangkit Academy (led by Google, GoTo, Traveloka)

Machine Learning Engineer Intern | Remote | 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 | Remote | Aug 2021 – Dec 2021

- **Conducted user research and applied design thinking methodologies** to create data-driven design systems, wireframes, and interactive high-fidelity web application prototypes in Figma.

Bangkit Academy (led by Google, GoTo, Traveloka)

DevOps & Cloud Computing Intern | Remote | 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 PROJECTS

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 (Carton $\rightarrow$ Box $\rightarrow$ Pcs).
- Automated CI/CD deployments across isolated staging and production multi-site environments on Firebase Hosting.

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 and ToolJet to power real-time executive reporting across Fleet Operations, Accounting, Cashier, and Sales divisions.

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 (Graduated with Honors)
- **Thesis:** “COVID-19 Case Prediction System in Indonesia Using Linear Regression Algorithm”, published in [Teknomatika: Jurnal Informatika dan Komputer](#) (Nov 2023).
- **Academic & Leadership Roles:** Head of Informatics Student Association (HMIF, 2021); Assistant Lecturer for Basic Programming and Data Engineering; Data Mining Bootcamp Mentor guiding 25+ students in Python and Google Cloud BigQuery.

CERTIFICATIONS

- **Google Cloud Certified: Professional Data Engineer** – Google (Sep 2026)
 - **Google Cloud Certified: Generative AI Leader** – Google (Jul 2026) - [Credential URL](#)
 - **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** – Microsoft (Mar 2024) - [Credential ID: 3844C8EF4649B838](#)
 - **Network Security** – Cisco (Oct 2024) - [Credential URL](#)
 - **ACA Big Data Certification** – Alibaba Cloud (Sep 2024) - [Credential ID: IACA03240900148745LID](#)
 - **TensorFlow Developer Professional Certificate** – Google (Aug 2022) - [Credential ID: 57023151](#)
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Versi Bahasa Indonesia

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RINGKASAN PROFESIONAL

Software & Analytics Engineer yang berorientasi pada hasil dengan 3+ tahun pengalaman di bidang Pengembangan Web Full-Stack, Data Engineering, dan Business Intelligence Enterprise. Memiliki rekam jejak teruji dalam merancang SPA TypeScript modular, membangun stored procedures PostgreSQL (PL/pgSQL RPC) berkinerja tinggi, mengoptimalkan execution plan query dari 30+ detik menjadi di bawah 1 detik, serta mengotomatisasi rekonsiliasi keuangan dan kepatuhan pajak (Coretax, AR, Klaim Logistik). Pemegang sertifikasi resmi Google Cloud Professional Data Engineer dengan keahlian kuat dalam menerjemahkan proses bisnis logistik dan operasional finansial yang kompleks ke dalam sistem teknis yang skalabel dan berintegritas tinggi.

KEAHLIAN TEKNIS

- **Bahasa Pemrograman:** TypeScript, JavaScript (ES6+), Python, SQL (PL/pgSQL, ClickHouse SQL), Kotlin, HTML5, CSS3/Sass.
- **Pengembangan Frontend:** TypeScript SPA, Vite, Bootstrap 5, Tailwind CSS, Desain Web Responsif, In-Memory Caching, Manajemen State, Vitest, Playwright.
- **Backend & API:** Node.js, Supabase (BaaS, PostgREST, RLS, Storage), RESTful API, FastAPI, Flask, Google Apps Script (GAS), Webhooks.
- **Data Engineering & Database:** PostgreSQL (Pengeindeksan, Optimasi Query, CTE, Relational Views, RPCs), ClickHouse, Google BigQuery, Pipeline ETL/ELT, Denormalisasi OLAP, Pemodelan Data, Change Data Capture (CDC).
- **BI & Analisis Data:** Power BI (DAX, Pemodelan Data), Metabase, Tableau, Looker Studio, Audit Keuangan & Rekonsiliasi AR, Kepatuhan Pajak Coretax, Dasbor KPI, Microsoft Excel / Google Sheets Tingkat Lanjut.
- **DevOps, Cloud & Alat Kerja:** 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.

PENGALAMAN KERJA

PT Jeje Harapan Transindo

Software Engineer (Data, BI & Enterprise Systems) | Bekasi, Indonesia | Jan 2025 – Sekarang

- **Merancang arsitektur dan merefaktorkan monolit keuangan legacy** menjadi Single Page Application (SPA) TypeScript modular (FATrack) berbasis Vite, token desain Bootstrap 5/NiceAdmin, dan Supabase PostgreSQL BaaS, meningkatkan performa UI dan kemudahan pemeliharaan sistem.
- **Membangun stored procedures PostgreSQL (PL/pgSQL RPCs) dan view relasional berkinerja tinggi** (`get_all_invoice_dashboard`, `get_all_claims_dashboard`, `get_invoice_kpi_counts`) untuk memproses relasi keuangan kompleks, alokasi trip, potongan biaya tambahan, dan audit log dinamis pada ratusan ribu data transaksi logistik.
- **Mengembangkan Engine Rekonsiliasi Piutang (AR) & Invoice Terotomatisasi** dengan 40+ kolom dinamis, 13 kartu ringkasan KPI langsung, kalkulasi pajak otomatis (DPP, PPN 11%/12%/Bebas, PPh 2%), serta rekonsiliasi selisih pembayaran dari 9 kategori potongan dengan batas toleransi absolut $|n| < 1\$$ (menghilangkan error floating-point desimal).
- **Mengoptimalkan execution plan database PostgreSQL pada tabel jutaan baris**

(trips, invoices, points) dengan mengeliminasi kondisi join OR yang tidak terindeks, merefaktor CTE agregasi, dan menerapkan indeks komposit B-tree, memangkas waktu eksekusi query hingga > 90% (dari 30+ detik menjadi <1 detik).

- **Merancang arsitektur skema analitis OLAP yang terdenormalisasi** (rfp_analytics) yang mengonsolidasi 20+ tabel OLTP menjadi 4 view analitis utama, serta membangun pipeline ETL ClickHouse (jht-clickhouse-etl) dengan Materialized Views guna mewujudkan Single Source of Truth (SSOT) untuk analitik armada.
- **Mengimplementasikan Modul Pelacakan Klaim & Insiden Logistik End-to-End** dengan algoritma pembagian beban tanggung jawab otomatis (*Paid by Transporter, Paid by JHT, 70:30, 50:50, Tanggung Renteng*) dan Buku Besar Utang (Debt Ledger) multi-entitas dengan mesin status otomatis (unpaid, partial, paid, overpay).
- **Mengurangi pemanggilan jaringan REST lebih dari 65%** melalui pembuatan manajer cache in-memory di sisi klien dengan kedaluwarsa TTL, pemanggilan asinkron paralel (`Promise.all`), dan konsolidasi query PostgREST.
- **Menerapkan standar keamanan, observabilitas, dan otomatisasi pengujian enterprise** melalui Role-Based Access Control (RBAC) pada 8 role pengguna, pelacakan error Sentry APM dengan reverse-proxy tunnel anti-adblocker, serta 52+ skenario uji otomatis dengan Vitest dan Playwright.
- **Membangun bot cerdas WhatsApp operasional (bot-wa)** berbasis Node.js, PostgreSQL, dan Google Gemini AI untuk mengotomatisasi penanganan tiket dan permintaan data operasional, memangkas waktu tunggu klasifikasi tiket sebesar 40% dan menghemat 40+ jam kerja per bulan.
- **Mengotomatisasi ekstraksi dan standarisasi dokumen Proof of Delivery (POD)** menggunakan Python (Pandas, Playwright) dan batch script, memproses 3.700+ dokumen per siklus dengan efisiensi waktu manual 95% dan akurasi linking data 100%.
- **Memimpin inisiatif Product Management** dengan menyusun Product Requirement Documents (PRD) di Jira/Confluence/ClickUp untuk sistem Transport Management System (TMS), menyelaraskan arsitektur teknis dengan alur kerja bisnis supply chain.

PT Titipbeliin Global Internasional (PT Jastip Andalan Niaga)

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

- **Menganalisis performa platform e-commerce dan perilaku pengguna** pada modul SAP FI (Finance), SD (Sales & Distribution), Purchasing, Warehouse Management, serta aplikasi web/mobile, mengidentifikasi dan menuntaskan bottleneck sistem sehingga meningkatkan omzet bulanan sebesar Rp 2,2 Miliar dan mendongkrak penjualan produk berbayar sebanyak 200 unit per hari.
- **Memimpin desain alur proses bisnis dan arsitektur alur pengguna** untuk integrasi dompet digital 'Titipay' dengan payment gateway Xendit, memangkas biaya administrasi, mengotomatisasi proses refund manual, dan menekan risiko transaksi penipuan (fraud).
- **Mengelola alur pengujian mutu perangkat lunak secara menyeluruh**, merancang 153 skenario uji UAT, serta melacak dan menuntaskan 420 temuan bug sistem melalui kolaborasi lintas fungsi dengan tim pengembang inti guna menjamin rilis produksi yang stabil.
- **Merancang alur pengguna, desain sistem, UI mockup, dan prototipe interaktif** untuk platform web dan mobile Titipbeliin.com dan Titipkirimin.com menggunakan Figma, mempercepat proses serah terima teknis ke tim frontend developer.

Bangkit Academy (dipimpin oleh Google, GoTo, Traveloka)

Machine Learning Engineer Intern | Remote | Feb 2022 – Jun 2022

- **Mengembangkan model analitik prediktif dan deep learning** menggunakan Python (TensorFlow, arsitektur CNN) untuk memecahkan tantangan klasifikasi data kesehatan dunia nyata.
- **Berkolaborasi dalam tim lintas disiplin Agile** untuk mengintegrasikan model machine learning ke dalam aplikasi mobile berbasis cloud, meraih peringkat Top 53 dari 463 tim proyek capstone nasional di Indonesia.

PT Impactbyte Teknologi Edukasi (Skilvul)

UI/UX Designer Intern | Remote | Agt 2021 – Des 2021

- **Melakukan riset pengguna dan menerapkan metodologi design thinking** untuk menghasilkan design system berbasis data, wireframe, dan prototipe aplikasi web interaktif high-fidelity menggunakan Figma.

Bangkit Academy (dipimpin oleh Google, GoTo, Traveloka)

DevOps & Cloud Computing Intern | Remote | Feb 2021 – Jun 2021

- **Men-deploy dan memelihara aplikasi cloud yang skalabel** di Google Cloud Platform (GCP), mengelola instance virtual machine, operasional backend, dan pemantauan server Linux (Lulus dengan nilai rata-rata 94,76).

PENCAPAIAN PROYEK

FATrack Apps — Sistem Manajemen Keuangan, Akuntansi & Perpajakan Enterprise

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

- Memodernisasi infrastruktur spreadsheet/GAS monolitik menjadi Single Page Application keuangan berskala enterprise.
- Membangun stored procedures berkinerja tinggi, kalkulasi rekonsiliasi multi-deduksi, kartu metrik KPI live, mesin status pelunasan utang, dan konversi multi-unit inventaris (Karton $\rightarrow$ Box $\rightarrow$ Pcs).
- Mengotomatisasi pipeline CI/CD multi-lingkungan (staging dan production) pada Firebase Hosting.

Infrastruktur Data Warehouse ClickHouse & OLAP Metabase JHT

Teknologi: PostgreSQL, ClickHouse, Metabase, Docker, SQL (CTE, Window Functions), Python ETL

- Merancang model analitik terdenormalisasi dan Materialized Views di ClickHouse untuk memisahkan beban analitis berat dari database operasional.
- Menyediakan 15+ koleksi data analitik tematik di Metabase dan ToolJet untuk mendukung pelaporan eksekutif di divisi Armada, Akuntansi, Kasir, dan Penjualan.

UmMeals — Analitik Dampak Sosial Kesehatan (Microsoft Innovation

Challenge)

Teknologi: Microsoft Azure, Power BI, DAX, Pemodelan Data

- Memimpin pemodelan data, pembuatan formula DAX, dan pelaporan interaktif untuk proyek 'UmMeals', menyajikan wawasan alokasi sumber daya berbasis data kepada dewan juri dan berhasil meraih penghargaan Top 6 Best Group secara nasional.

Project Anya — Aplikasi AI Pemantauan Stunting

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

- Mengembangkan sistem klasifikasi gambar berbasis AI untuk menganalisis foto makanan dan menghasilkan data nutrisi guna memantau kesehatan ibu dan anak, terpilih sebagai Top 53 dari 463 tim nasional.

PENDIDIKAN

Universitas Jenderal Achmad Yani Yogyakarta Sarjana Ilmu Komputer (Informatika) | 2018 – 2022

- **IPK:** 3.88 / 4.00 (Lulus dengan Predikat Cum Laude)
- **Skripsi:** “Sistem Prediksi Kasus COVID-19 di Indonesia Menggunakan Algoritma Regresi Linier”, diterbitkan pada [Teknomatika: Jurnal Informatika dan Komputer](#) (Nov 2023).
- **Pengalaman Akademik & Organisasi:** Ketua Himpunan Mahasiswa Informatika (HMIF, 2021); Asisten Dosen Praktikum Pemrograman Dasar & Data Engineering; Mentor Bootcamp Data Mining membimbing 25+ mahasiswa dalam bahasa Python dan Google Cloud BigQuery.

SERTIFIKASI

- **Google Cloud Certified: Professional Data Engineer** – Google (Sep 2026)
- **Google Cloud Certified: Generative AI Leader** – Google (Jul 2026) - [URL Kredensial](#)
- **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** – Microsoft (Mar 2024) - [ID Kredensial: 3844C8EF4649B838](#)
- **Network Security** – Cisco (Okt 2024) - [URL Kredensial](#)
- **ACA Big Data Certification** – Alibaba Cloud (Sep 2024) - [ID Kredensial: IACA03240900148745LID](#)
- **TensorFlow Developer Professional Certificate** – Google (Agt 2022) - [ID Kredensial: 57023151](#)