ANDRIAN KURNIA AJI

SOFTWARE ENGINEER

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PROFILE SUMMARY

Software Engineer with 2+ years of experience in backend and fullstack development across banking, energy, and geospatial industries. Specialized in Golang microservices, financial system integrations, and data migration at scale. Enthusiastic about building reliable systems, optimizing performance, and contributing to impactful business solutions.

EDUCATION

Binus University | Aug 2018 - Des 2022 | GPA 3.0
Bachelor's Degree, Computer Science

Hacktiv8 | May 2022 - Sept 2022
Fullstack Javascript Immersive Program

English First (EF) | August 2023 - Present
Elementary Stage

SKILLS

Front-end
React, React-native, Vue, Jquery, EJS, Expo

Database
PostgreSql, MySql MongoDB, Bigquery, Sql Server

Back-end
Golang, Node.js, Express, Sequelize, GORM, Redis, Graphql, Jwt, Jest, Apollo-client, RabbitMQ

Others
GCP, Pinia, Redux, Github, Axios Docker, Heroku, Firebase

WORK EXPERIENCE

PT Bank Rakyat Indonesia - Backend Developer Des 2023 – Des 2025

Safe Deposit Box (SDB)

- Developed registration, visitor log, and closing modules as Golang microservices, improving automation and security of SDB operations.
- Integrated services with BRI's core banking systems via gRPC and REST APIs, ensuring reliable interoperability.
- Implemented daily scheduler service to automatically check and process SDB rental extensions, reducing manual intervention and ensuring timely renewals.
- Optimized database queries using CTEs (Common Table Expressions), reducing redundant subqueries and improving execution speed.

NDS (New Delivery System) V3 - Core Banking Platform for CS & Teller

- Built auto queue generator for branches without QMS machines, using Redis atomic counters to create sequential AA/BB queue numbers with daily reset.
- Developed Whitelist Branch Service and BVP (Biometric Validation Platform) Branch Service: if a branch is not registered in both, branch are not allowed to use queueing features.
- Created a performance evaluation service for Teller & CS, divided into 4 scoring aspects, enabling transparent and measurable service quality.
- Designed all services as high-concurrency Golang microservices, capable of handling large volumes of parallel DB queries.

Queueing Management Service (QMS)

- Designed a virtual queueing system accessible via mobile apps and kiosks,
- Implemented dynamic business logic routing to direct customers to the most suitable teller/CS, balancing workloads across staff.
- Enhanced performance using concurrency techniques (goroutines & channels) to parallelize service calls, lowering latency and increasing throughput.

Cash Card Corporate Feature

- Collaborated with the ESB (Enterprise Service Bus) middleware team to integrate numerous backend APIs into the NDS ecosystem.
- Interpreted and implemented API specifications from ESB, developing backend services for corporate cash card issuance and re-issuance.
- Transformed ESB API outputs into gRPC endpoints for frontend consumption, ensuring consistent contracts and high performance.
- Performed API validation and error handling, improving reliability and reducing integration issues for downstream systems.

System Performance Optimization

- Improved service responsiveness by leveraging goroutines for concurrent DB queries and microservice calls.
- Introduced parallel query execution and connection pooling, reducing response times across multiple business services.
- Implemented asynchronous processing for non-critical operations, freeing resources for real-time transaction handling.
- issues for downstream systems.

Data Migration & Optimization

- Migrated millions of customer and SDB inventory records from legacy systems with full validation.
- Optimized data pipeline throughput from 100 → 3000 boxes per batch, cutting processing time from ~2m to ~10s.
- Stored validated results in Minio Object Store, ensuring high availability, reliability, and audit compliance.

Tech Stack : Golang, Grpc, NodeJs, Redis, RabbitMQ, Minio, Microservices, GORM, Jira, Confluence, SQL, MySQL, Git, Bitbucket, Bamboo.

PT Bank Raya Indonesia Tbk - Backend Engineer

- **System Lelang Bank Raya Indonesia**
  - Using Google Scheduler so that the System is Dynamic
  - The system uses Google BigQuery and PostgreSQL to store data
  - For Microservice Using Google Pub/Sub and API Google Form
  - Using MVC Concept
  - During the developing period using Software Development : Jira & Confluence

Success Story : We set Google Scheduler with our stack to create dynamic job scheduler so any renewal notification needed is done automatically according to expiration date of its job so we don't need any human touch and this make our service efficience

Apr 2023 – Oct 2023

- **Data Engineer and Monitoring Center**
  - Create System to Monitoring the division of Data Engineer
  - Control Job from MSSQLServer, PostgreSQL, Google BigQuery, and Virtual Machine

Success Story : We can see all jobs that are running on all database systems on one website. We can also monitor which jobs are Pending Failed and Successful.
So we make it easier for the data engineer division to see ongoing jobs

Tech Stack : Golang, Google BigQuery, NodeJs, Google Pub/Sub, Google Scheduler, PostgreSQL, GORM, Jira

PT Pertamina Hulu Energi - Fullstack Developer Sept 2022 – Mar 2023

- **Promyst**
  - Create a website to input important data in the field so that the data can be processed back to people who are at pertamina offshore.

Success Story : we can create a system that is useful for field people to input the data they get, and we succeeded in developing this system using the low code programming method where we used the Code On Time application for developing it and used the .NET framework

Tech Stack : CodeOnTime, C#, .NET, SQL Server, Trello

Internship, Esri Indonesia Feb 2021 – Feb 2022

Project from Binus and collaboration with ESRI Indonesia,
more specifically looking for data then processing the data and doing mapping using the ArcGis application provided by ESRI

Internship, Diskominfo Tangerang Sept 2021 – Feb 2022

Diskominfo Tangerang, developing a website simpatik and presenting it, more specifically helping civil servants in Tangerang on how to use it.