KHOR ZHEN WIN
BACKEND ENGINEER II
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SUMMARY

Always eager to learn the realms of engineering and is self-motivated to chase the never-ending tech scene.

EXPERIENCE

MONEYLION   Kuala Lumpur, Malaysia

Backend Engineer II   September 2023 – Present

- Led the integration of separating payment authorization and capture steps from a bundled transaction, to enhance **account balance detection** capabilities with propagated lift of **5% lift in payment collections**. Proposed several cross-service integrations that highlights both operational overhead, coupled dependencies, and data archiving strategies.
- Designed and implemented end-to-end integration with one of the top three banks in the US, incorporating smart routing for **Payments-as-a-Service**, and extending through to webhook consumption via **AWS API Gateway** and **AWS Lambda**. Sole owner of driving the research, integration, design, and communications of the entire feature which unlocked business continuity during external service downtime and a **1.2% increase in success rate** of otherwise failed bank disbursements.
- Designed and implemented a **CQRS-based card reversal endpoint**, facilitating seamless transaction voiding and reversal with payment processors, enhancing customer operations to **refund ~100 transactions weekly**.
- Enhanced monitoring and automated alerts on grafana and DataDog to trace inconclusive transfers, resulting in the conclusion of approximately **700 transfers monthly** and establishing a reliable payment ledger.
- Spearheaded the migration of SOAP to REST integration of a payment service provider, demonstrating notable performance enhancements in monitoring, throughput, and parallel client load distribution, reducing latency caused by a blocking SOAP client **from 2-3 minutes to 6 seconds**.
- Migrated kafka consumers from a dual-read approach ensuring idempotency and deduplication in message consumption.
- Performed performance testing on core services up to **50 times production load** for a marketing campaign to ensure spiked, gradual increase, and bursty traffic is supported whilst minimizing idle cost. Further optimized on thread pool sizing and rest clients to improve sensitivity of on-demand scaling and handling backpressure.

FUSIONEX INTERNATIONAL   Selangor, Malaysia

Data Engineer / Backend Developer Intern   July 2022 – November 2022

- Delivered large-scale ETL pipelines consuming a million records daily using Google Big Query & Apache Airflow for normalized usage of dashboard building, ingesting from various sources such as MongoDB, CSV files, Firestore, PostgreSQL.
- Developed and maintained microservice API endpoints using MEN stack with authentication middleware.
- Integrated automated test cases for backend API testing using Jest to decrease resources used on testing.

Business Analyst / Quality Assurance Intern   April 2021 – August 2021

- QA software solutions in end-to-end manual web & native mobile app testing.
- Enhanced front-end web testing by utilizing Selenium/Katalon to automate tests and utilized Postman for back-end API manual testing.
- Refined business requirement documentation for clients and software manuals for regular upkeep.

EDUCATION

ASIA PACIFIC UNIVERSITY   2021-2023

Bachelor's in Computer Science, Data Analytics

- CGPA of 3.8
- Coursework covering Data Engineering (ETL, Pipelines, Data Warehousing), Data Analytics (Dashboarding w/ PowerBI), Data Science (Predictive Modelling w/ SAS Enterprise Miner), Text Analytics (Python)
- Course projects include: - Employee Attrition Analytics (R Programming), Sales Performance Analytics (PowerBI, ETL), Predictive Modelling for Airline Customer Satisfaction (SAS Enterprise Miner), Tuition Management System (C++), Airflight Control System (Java)
- FYP: Emotion Analysis Dashboard using Spotify Data (Next.js, MantineUI, ChakraUI, Vercel)

TECHNICAL SKILLS

Programming   : Java (SpringBoot), JavaScript, PHP, VB.Net, Python, Next.js, React.js, Go (Learning)
Data Analytics/Engineering : R, SAS, PowerBI, Google Big Query, Airflow, PostgreSQL, MongoDb, Grafana, DataDog
Software Testing   : JUnit, Mockito, k6, Selenium, Postman, Jest.js

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OTHERS

Certifications : AWS Certified Developer - Associate (DVA-C02)
Language   : Fluent in English and Bahasa Malaysia for reading, writing, and speaking.
Activities   : 1st Place in 4 Hackathons – 2 Web Projects, 1 Mobile App, 1 Backend Challenge
                     Finalists in 2 Hackathons – 1 Web Project, 1 Data Analysis Project