

Jack (Wong Tiong Kiat)

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Employment History

Backend Developer MoneyLion.com Oct 2020 – Dec 2021

- Enabling automation of, know your customer (KYC) process by integrating 3 different industry leading identities (Onfido, IDology, and Neustar), saving more than \$200,000 on licensing costs.
- Designing, implementing and deploying fraud decision engine by consolidating platform wide user data to reduce fraudulent activity throughout multiple financial products.
- Archiving historical data to glacier, and standardizing MongoDB schema in a running production environment without down time, leading to a reduction of 70+ million out of 90+ million rows.
- Consolidating the process of onboarding for two senior engineers, therefore cutting the resources needed to onboard future hires.
- Creating a semi-automated reusable archival strategy for AWS DocumentDB collection, leading to cost-saving.

Data Engineer Binary.com / Deriv.app Jun 2019 – Sept 2020

- Laying out the foundation for an ETL data warehouse to assist the upper management in making data-driven decisions.
- Migrating the data warehouse to GCP thereby allowing around-the-clock availability of services leading to a reduction of maintenance and developer cost.
- Designing the data extractor with real time data tracking capability allowing effective detection of fraud activity.
- Creating summary tables of different granularity across different intervals to be used for queries, dashboards, analysis, reportings and artefacts, reducing the overall load on the data warehouse by more than 70%.

Database Developer Binary.com / Deriv.app Dec 2018 – Jun 2019

- Normalizing, migrating and making DDL changes to tables across different database clusters with zero down time resulting in minimal disruption to end users in a running production system through logical replication.
- Unifying development and CI/CD container environments such that they are a better representation of the production environment, thus reducing the number of potential bugs.

Backend Developer Binary.com / Deriv.app Jun 2018 – Dec 2018

- Improving horizontal scalability by developing an event queue-based system for client statements.

R&D Intern ViTrox Corporation Berhad Mar 2017 – Jun 2017

- Researching an in-house image processing library in C++ resulting in a cost reduction of 1000\$ USD per inspection machine.
- Implementing a proof of concept generic template container allowing users to define their memory layout in both compile/run time with the use of metaprogramming in C++.
- Benchmarking the performance of the proof of concept generic template container across different C++ compilers.

Research Assistant Multimedia University Dec 2016 – Dec 2017

- Leading a team of four in a collaborative funded project with a public hospital to develop a fully automated algorithm to diagnose retinal diseases.

Projects

- **Investment Portfolio Tracker.** An automated stock tracker with GSheet integration for personal portfolio analysis.
- **Stock Market Scraper.** A scraper that tracks individual stock prices across multiple sources daily to assist users with stock analysis.
- **Natural Language Processing.** Dashboard that displays sentimental analysis on data scraped from social media.
- **Sentimental Analysis.** Animated and dynamic dashboard that displays public sentiment about e-commerce.
- **Road Accident & Injuries.** Exploratory dashboard allowing users to interact with data obtained from the Department of Statistics Malaysia.

Education History

Multimedia University Mar 2015 – Mar 2018

- Bachelor of Computer Science (Hons) in Data Science, CGPA: 3.92/4.00.
- Oracle Certified Professional Java SE Programmer
- Microsoft Certified Technology Associate Exam 98-364.
- First runner up for MMU intervarsity programming competition by Fusionex.

Languages and Technologies

- NewRelic, CI/CD, PostgreSQL, SpringBoot, Python, C++, Java, Shell, Regex, GCP, AWS, Redis, MongoDB, Docker, Airflow