Tan Wei Chun

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EDUCATION

Monash University February 2021 - June 2023

Bachelor of Computer Science in Data Science; CGPA 4.00/4.00 *Victoria, AU*

- **Relevent Coursework:** Data Structures & Algorithms, Databases Design, Big Data Management & Processing, Data Modelling & Analysis

EXPERIENCE

MoneyLion October 2022 - Present

Data Engineer *Kuala Lumpur, MY*

- Deployed, maintained and scaled core data platforms such as **Airflow, Spark, & Airbyte** as IaC in **Kubernetes**, providing high availability, reliability and observability.
- Implemented ELT pipelines to be ingested into **Snowflake** data warehouse and designed subsequent data models for analytics using **DBT**.
- Optimized queries in **Neo4j**, which currently processes over 140k table lineage relationship, leading to a **60% reduction in memory usage**.
- Improved the observability coverage on data warehouse by implementing a SQL parser application to perform data mining on historical query logs and extracting table's read/write metadata, saving engineers 2 hrs/day on determining table staleness.
- Led the re-architecture effort and took ownership of the internal python library, responsible for providing ETL wrapper for source to sink of more than 200+ pipelines, leading to improved developer experience and faster release cycles.

Split August 2021 - July 2022

Software Engineer Intern (Full Stack) *Singapore, SG*

- Led a team of 3 on the engineering effort of the mobile app on **React Native**, increasing user retention **by 70%**.
- Contributed to the credit assessment engine to allow for increased customer conversion on initial impressions and **reduced fraud attempts of over $100K** by introducing e-KYC.
- Designed and released key commerce features including secured payment flow through Stripe API, order history, and payment methods management.
- Developed a simplified e-commerce store and merchant dashboard for order and product management utilizing **ReactJs** and **NestJs**, resulting in **20 new enterprise customers**.
- Sped up bi-weekly deployment pipeline **by over 75%** on both App Store and Google Play Store using Fastlane.
- Managed CI/CD process of containerized app through **Jenkins**, **Ansible** and **AWS**.

Futurelab November 2020 - February 2021

Software Engineer Intern *Kuala Lumpur, MY*

- Revamped platform's front end built on **Ruby on Rails** to **NextJs**, improving user experience and reduced initial time to load **by 90%**.
- Automated business analytics tracking across the platform framework using Ahoy and Sheets API, providing crucial insight used during weekly retrospective.
- Contributed to internal search filtering algorithm to recommend contents closer to user's interest.
- Automated manual business tasks to increase efficiency using cron jobs.

PROJECTS

Pipes Analytics | *NextJs, NestJS, Docker, Terraform, AWS* January 2022 - January 2023

- Built a custom internal web app used by Monash University's course coordinators to determine if students can graduate given the course rules & custom constraints and student's units.
- Optimized parser algorithm to be able to parse student's enrolment information against course rules and output the graduability information.
- Enabled drag and drop rules composer on the front end to allow users to be able to compose and update rules set.