

# Tan Wei Chun

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## EDUCATION

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### Monash University

February 2021 - June 2023

*Bachelor of Computer Science in Data Science; CGPA 4.00/4.00*

*Kuala Lumpur, MY*

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

## EXPERIENCE

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### MoneyLion Inc.

October 2022 - Present

*Data Engineer (Platform)*

*Kuala Lumpur, MY*

- Achieved **60% reduction** in internal python library's feature lead time by automating review and release cycles, increasing key functions test coverage from 20% to 80%, and tracking code metrics using SonarCloud.
- Improved observability coverage on Redshift warehouse by implementing a **SQL** parser application to perform data mining on historical query logs and extracting table's read/write metadata.
- Led the archival effort of **approximately 8000 stale tables** from Redshift to S3 Deep Glacier and subsequently the restoration effort into Snowflake.
- Optimized memory usage of Neo4j queries used to analyze data lineage relationships **by 50%**, eliminating the occurrences of OOM errors.
- Designed and implemented end to end ELT pipeline using **Python** on **Airflow** and **Snowflake**.

### Pay With Split

August 2021 - July 2022

*Software Engineer L2 (Full Stack)*

*Singapore, SG*

- Led a team of 3 in design and development of the mobile app's core features on **React Native**, increasing user retention **by 70%**.
- Sped up bi-weekly deployment pipeline **by over 75%** on both App Store and Google Play Store using Fastlane.
- Improved credit assessment engine to allow for better customer conversion on initial impression and implemented e-KYC verification on the app which reduced cases of fraud through the platform.
- Engineered and released major features including secured payment flow, order history, and payment methods management.
- Designed and implemented a simplified e-commerce store and merchant dashboard for order and product management utilizing **ReactJs** and **NestJs**, resulting in **20 new enterprise customers**.
- 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.
- Improved internal search filtering algorithm to recommend contents closer to user's interest.
- Automated manual business tasks to increase efficiency using cron jobs.

## PROJECTS

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### 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.