

Tiew KEE HUI

Machine Learning Engineer

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COMPETENCIES

Programming	Python, SQL, Java, Typescript, Golang
Web Frameworks	FastAPI, Spring Boot, Flask, AngularJS, Angular
Data	Postgres, Hudi, Redshift, Redis, BigQuery
Others	Pytorch, Pyspark, pandas, scikit-learn, MLflow, Airflow, Docker, git, Kubernetes, Helm, Terraform, Kafka, Keras/Tensorflow 2.0, GCP, AWS

PROFESSIONAL EXPERIENCE

Now June 2022	Senior Software Engineer (Machine Learning), SHOPBACK, Singapore <ul style="list-style-type: none">> Developed, deployed, and managed recommendation systems spanning 11 countries using FastAPI and BentoML. Achieved a 5% to 10% increase in click-through rates (CTR) on the homepage> Established robust data processing and model retraining pipelines utilizing Pytorch and Pyspark> Develop, monitor and maintain crucial APIs and Kafka consumers, which serves approximately 3 million requests per day> Led seamless migration of FastAPI services, significantly enhancing reliability and reducing P99 latency by 50%> Co-led migration of Risk and Fraud API from Kotlin to Typescript monorepo
April 2022 March 2021	AI Engineer, MONEYLION, Kuala Lumpur <ul style="list-style-type: none">> Recommendations<ul style="list-style-type: none">> Integrated existing system with Amazon Personalize to serve recommendations> Built a Kafka Streams Interactive Query API for aggregating user interactions to rerank recommendations> Decision Engine / Experiment Engine<ul style="list-style-type: none">> Developed data pipelines for sampling data> Optimized a data exporting function from Aurora RDS to S3 from hours to minutes> Collections and Payments<ul style="list-style-type: none">> Migrated and optimized data pipelines for collecting due repayments from users
February 2021 September 2019	Data Scientist, AIR ASIA, Kuala Lumpur <ul style="list-style-type: none">> Customer Intelligence Team<ul style="list-style-type: none">> Delivered a dashboard that measures customer spending behaviour year-over-year> Deployed Airflow and Jupyterhub to conduct analysis and orchestrate data engineering jobs> Performed ETL of hundreds of gigabytes of data across different systems e.g. BigQuery, Clevertap> Used XGBoost to cross-sell to customers between different lines of businesses> Data Platform & Experimentation Team<ul style="list-style-type: none">> Contributed to Talaria, a custom database that stores experimentation metrics> Deployed Presto and Metabase to query hot data from Talaria> Assisted teams to setup infra and deploy Airflow on our Data Platform
August 2019 September 2018	R&D Software Engineer, IFAST CAPITAL, Kuala Lumpur <ul style="list-style-type: none">> Developed a chatbot to handle general enquiries. Experimented with BERT, Rasa, GloVE, word2vec and fastText for sentence embeddings. Integrated final product into the existing website using AngularJS, Spring MVC, Python and AWS> Enhanced an in-house web application using Spring Web Flow for Customer Services to input training data for the chatbot> Conducted churn analysis using XGBoost, Random Forest and SHAP

EDUCATION

2018	Bachelor of Computer Science (Data Science) @ Multimedia University, Malaysia. <ul style="list-style-type: none">• Graduated with a CGPA of 4.0/4.0• Final Year Project sponsored by SEEK Asia - Predicting a company's industry based on its name using Support Vector Machine, Convolutional Neural Networks, word2vec and fastText
2015	Cambridge A Levels @ Tunku Abdul Rahman University College, Malaysia. <ul style="list-style-type: none">• Obtained results of 4A*• Top in Malaysia for AS and A Level Computing