# Ting Yao Fam

Full-time engineer and part-time graduate student based in Singapore. Singaporean.

Email / LinkedIn / GitHub

#### Technical Skills

- Data Engineering: Airflow, Hive, Presto, Flink, Spark
- Databases: SQL (Redshift, Athena, BigQuery, PostgreSQL, Hive, Presto, Spark SQL); NoSQL(DynamoDB)
- Cloud: AWS Certified Solutions Architect, Google Cloud Certified Data Engineer
- **DevOps**: Deployment with AWS CF, Serverless Application Model, ECS; CI/CD with AWS CodePipelines, GitHub Actions
- Languages: Python, Java, Scala, C; Some experience in R, Node.js, Go, C++;

### Professional Experience

Software Engineer (Data) @ Aqilliz (May 2020 - Present)

- Designed, implemented and maintained the company's data infrastructure from scratch
- Built streaming and batch data pipelines that reconile transactions from different data sources and deliver analytics
- Tools used: Airflow, Apache Flink, AWS ECS, Kinesis, Athena, Glue, S3, RDS, API Gateway, Lambda, Quicksight
- Languages used: Python, Java, SQL, Node.js, Go

#### Software Engineer (Data) @ HOOQ (Mar 2019 - May 2020)

- Deliver various streaming and batch data pipelines for analytics
- Rearchitected the data infrastructure from a purely data warehouse (Redshift) to data lake (S3, Redshift Spectrum/Athena, Redshift) design, reducing operating costs by > 20%
- Improved readability, reliability, and flexibility of ETL process by rewriting the legacy ETL processes (Windows Scheduler with Pentaho Data Integration) on Airflow DAGs and Python
- Conducted workshops and mentored junior team members

# Senior Associate @ Deloitte (Mar 2018 - Jan 2019)

• Reconciled financial transactions across different banks to help identify anti-money laundering, terror financing law breaches

Software Engineer (Data) @ Dentsu Aegis Network (Aug 2016 - Mar 2018)

• Developed data pipelines to ingest structured and unstructured data

- Productionized machine learning models used in marketing attribution by rewriting API codebase from R to Python, optimising SQL queries, reducing execution time by > 10x
- Architected and deployed auto scalable infrastructure stack on AWS(ECS) and GCP(GKE), reducing monthly costs by 80%, cutting deployment time down to less than 5 minutes (Cloud Deployment/Cloud Formation)

# Google Squared Data & Analytics Trainee @ Google (Jun 2016 - Feb 2017)

• 1 of 25 graduates chosen from over 300 applicants (2016 cohort) in Google's Squared Data & Analytics Program (a collaboration with Singapore's IMDA) undertaking weeks of on-site training at Google in Web Analytics, Predictive & Text Analytics, R, BigQuery and Google Analytics.

# Education

#### Georgia Institute of Technology (Aug 2020 - 2023)

- Candidate for MS in Computer Science
- Specialization: Computing Systems

# Nanyang Technological University - Singapore (Aug 2012- Jun 2016)

- BE in Electrical and Electronic Engineering
- Specialization: Info-communication Engineering
- 2nd Class Upper Honours (Distinction)

# KTH Royal Institute of Technology - Stockholm, Sweden (Aug 2014 - Jan 2015)

• Student Exchange Programme at School of Information and Communication Technology

# Awards

#### Certificate of Distinction - NTU (Jun 2015)

• Awarded for excellent performance during internship

#### President Research Scholar with Merit - NTU (Jun 2014)

 Awarded for undergraduate research work in "Optimisation of Photon Detection Systems" with DSO National Laboratories