

# Self-Introduction

# Outline

Background

Experiences

Skill Set

# Sheng-Yen Chou (周聖諺)

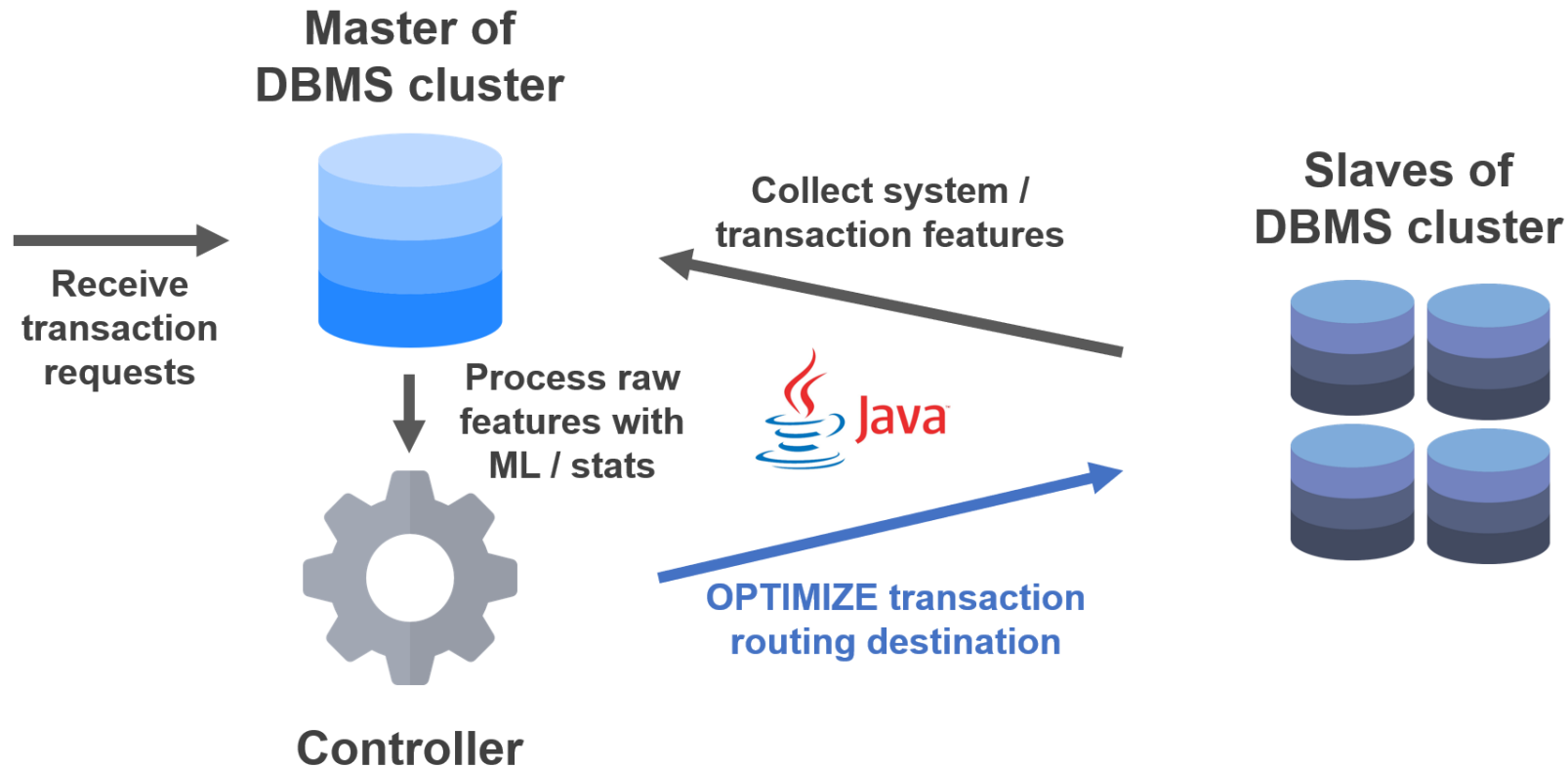
- Senior student major in **CS, NTHU**
- **Graduate in 2022 with B.S. degree(expected)**
- Entrepreneur and enthusiast in **machine learning** and **large-scale systems**.
- Developer of open source distributed database: **ElaSQL** and **VanillaDB**

# Experience Overview

- Research assistant in NTHU Datalab
  - Join **distributed database system** research group, **optimize the transaction routing problem with ML techniques.** (Java)
  - Join **machine learning** research group, **propose a new image synthesis algorithm: GA-NTK.** (Python)
- Co-founder of [LEAFHOPPER.IO](https://leafhopper.io)
  - Lead a team of 7 people and **build a traceability system** for Dung-Ding Oonlong tea in cooperation with Lu-Gu township government. (PostgreSQL, Kubernetes, Docker)
- And many others...

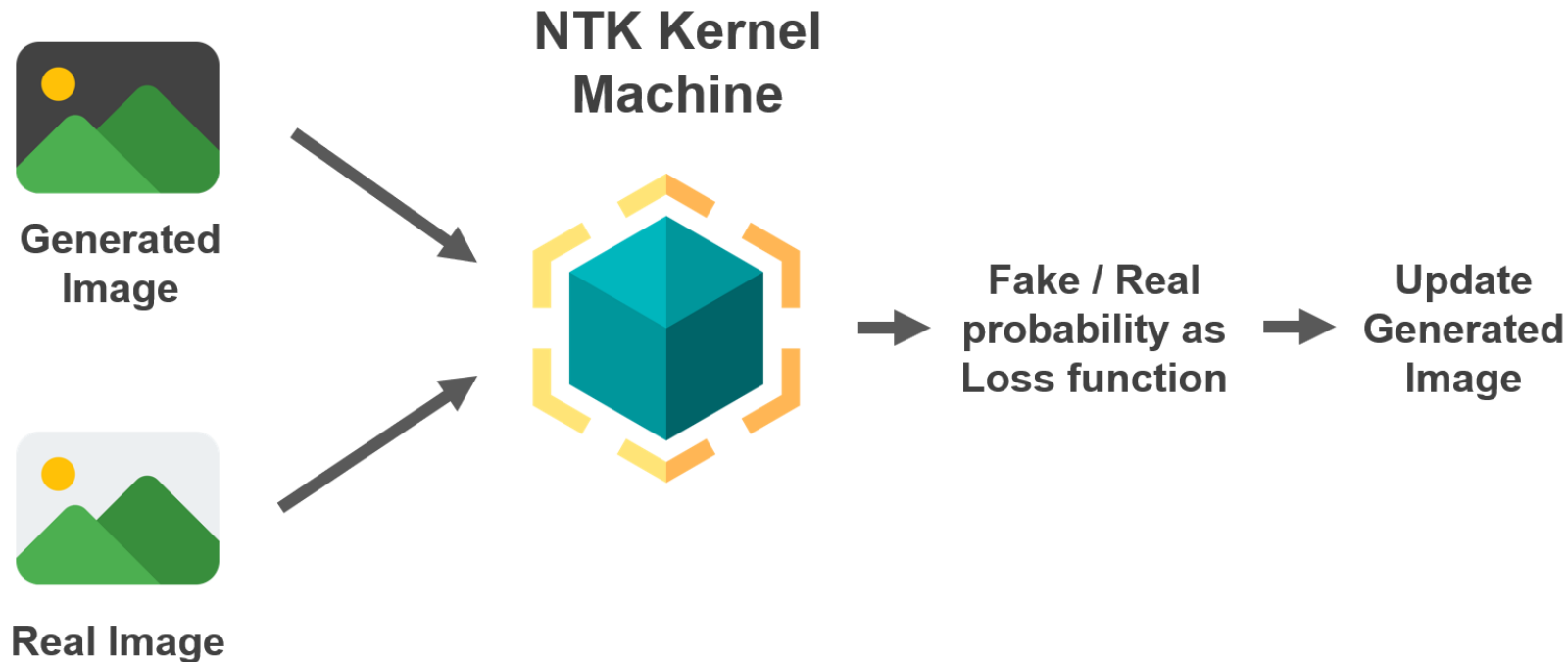
# In Distributed Database Research Group

- 2 main contribute to the open source database project: **ElaSQL** and **VanillaDB**.
- Implement the **prototype** of the "**DependencyAnalyzer**" component with **Java**.
- **Reproduce experiments** of the paper "MB2: Decomposed Behavior Modeling for Self-Driving Database Management Systems"



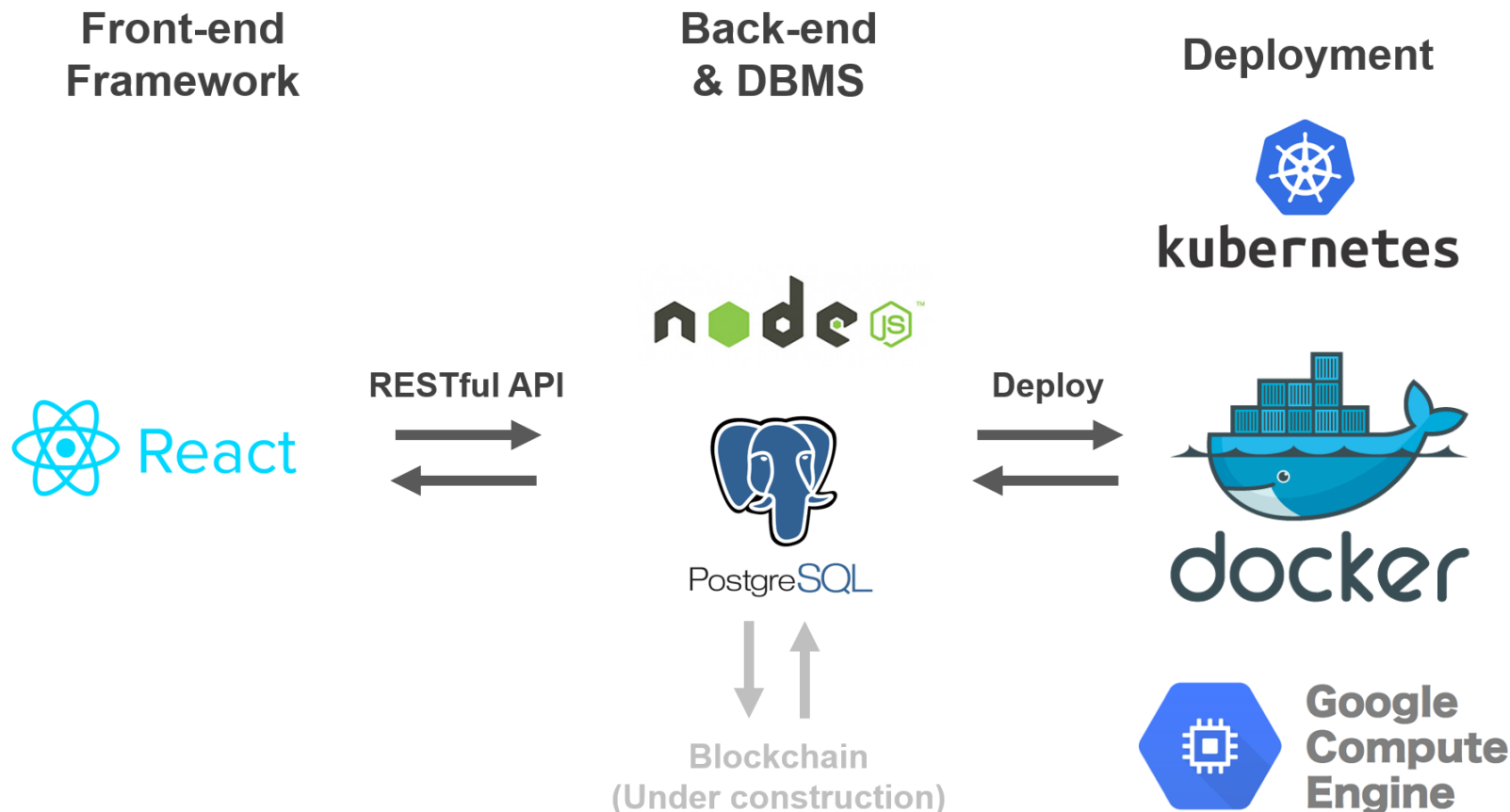
# In Machine Learning Research Group

- Propose a new image synthesis algorithm: GA-NTK, which can generate competitive images in comparison to GANs, eg: WGAN...
- reduce bilevel optimization problem of GANs to single-level one
- The paper is under submission



# As Co-founder of **LEAFHOPPER.IO**

- Lead a team of 7 people and negotiated with the local farmer.
- Build a traceability system for Dong-Ding Oolong tea in cooperate with Lu-Gu government.



# Skill Set

- Machine Learning (1 paper under submission) & Distributed Database researches
- Programming language
  - **Java, Python, C++, R**
- Frameworks
  - **React, Node.js**
- Deployment
  - **Kubernetes, Docker, GCP**
- DBMS
  - **PostgreSQL**



**Thank You For Listening**