

Self-Introduction

Outline

Background

Experiences

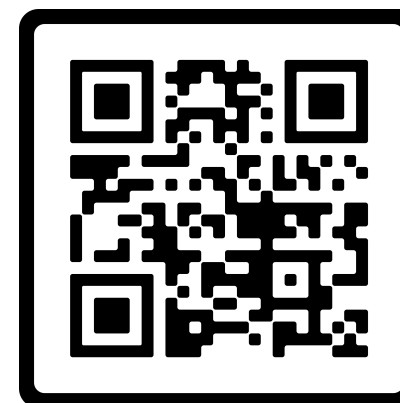
Skill Set

Sheng-Yen Chou (周聖諺)

- Senior student major in CS, NTHU(國立清華大學)
- Graduate in 2022 with B.S. degree(expected)
- Entrepreneur and enthusiast in machine learning and large-scale distributed systems.
- Developer of open source distributed database: ElaSQL and VanillaDB
- Maintain a [blog](#) and [Github](#), which keep recording and sharing the knowledge.



MY BLOG



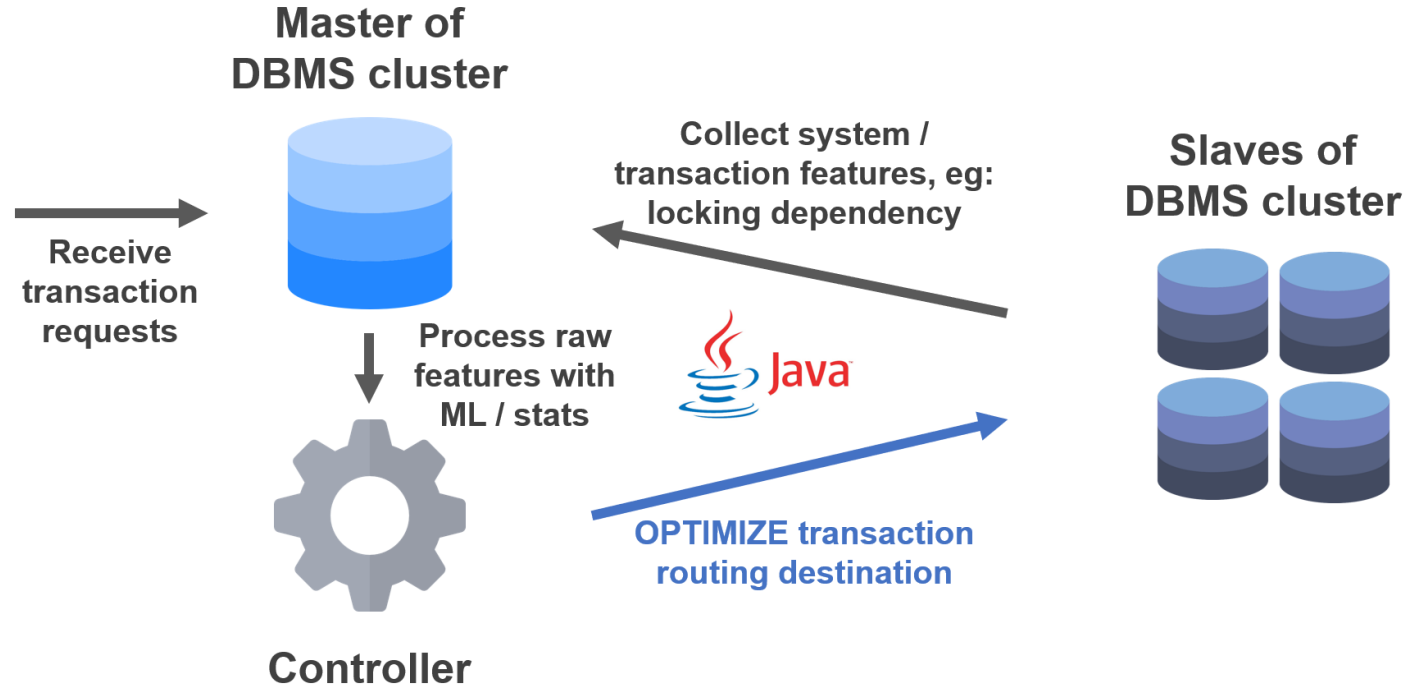
GITHUB

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 student startup 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...

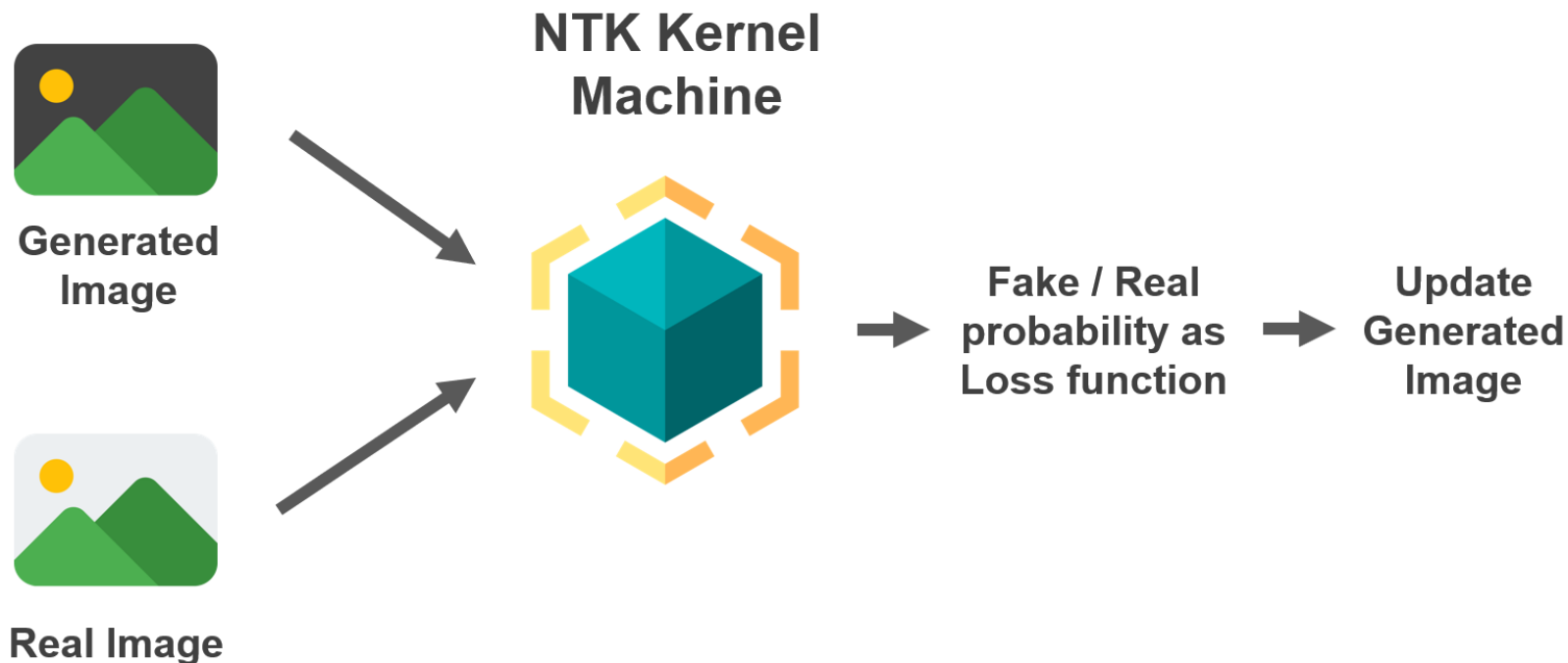
In Distributed Database Research Group

- 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" to **verify the feasibility** of the topic.
- The paper is under writing



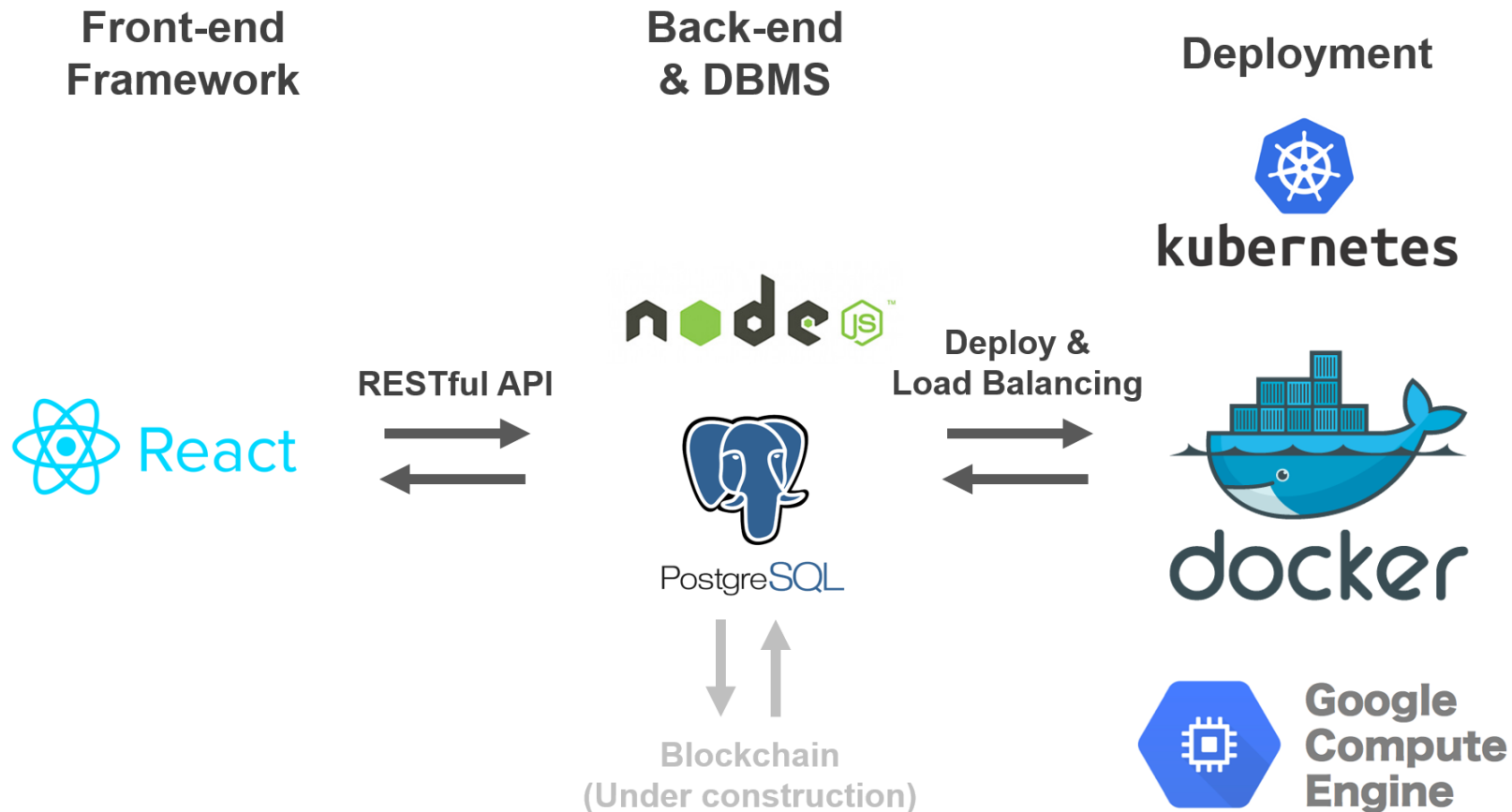
In Machine Learning Research Group

- Propose a new image synthesis algorithm: GA-NTK, which can generate competitive images in comparison to GANs with only 64 ~ 256 images
- Reduce bilevel optimization problem of GANs to single-level one, stabilize the training progress of GANs, and prevent vanish gradients.
- The paper is under submission to CVPR 2022



Co-Founder Of Student Startup LEAFHOPPER IO

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

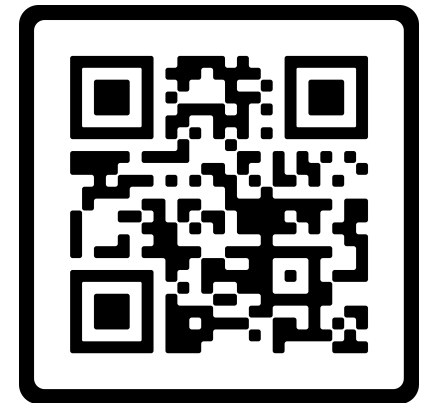


Skill Set

- Machine Learning (1 paper under submission) & Distributed Database researches
- Entrepreneur & Team Player
- Programming language
 - Java, Python, C++, R
- Deployment
 - Kubernetes, Docker Swarm, Google Cloud, Linux
- DBMS
 - PostgreSQL, MySQL
- Frameworks
 - React, Node.js



MY BLOG



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Thank You For Listening