

# Chia-Yuan Liu

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## SKILLS

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**Programming:** C#, Python

**Database Management:** MySQL

**DevOps Tools:** Docker, Jenkins, Git, Gitlab CI

**Language:** English (fluent), Mandarin (native), Taiwanese (native)

## EXPERIENCE

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**Bridgewell Inc.**

Taipei, Taiwan

**Software Engineer**

January 2019 – Now

- Search Engine team.
- Built a user behavior data pipeline to enhance the ranking of a search engine.
- Designed and implemented a Google Analytics-like report system for clients to review the ranking performance.
- Built a CI/CD pipeline of search engines to increase the reliability and the productivity of development.
- Refactored a 20-year-old legacy search engine project, reducing redundant codes (c# source code) up to 22%.
- Supported a high-pv e-commerce website as a search engine technology consultant, helped them improve the quality of indexed data and the dictionary for tokenization. We created a 5% uplift in click-through rate of search result pages and a 6% uplift in buy-after-search rate.
- Tech stack: C#, .NET, Python, Spark, MySQL, Docker, Gitlab CI, Jenkins

## EDUCATION

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**National Chiao Tung University**

HsinChu, Taiwan

**Master of Science, Inst. of Computer Science and Engineering**

September 2015 – August 2018

- Bioinformatics Laboratory.
- Research Interest: Machine Learning, Natural Language Processing
- Thesis: A Hybrid Music Recommendation System Based on Collective Matrix Factorization and Tag Semantics

**National Chiao Tung University**

HsinChu, Taiwan

**Bachelor of Science, Dept. of Computer Science**

September 2011– June 2015

- Awards: Academic Excellence Award (AY2011)
- Achievement: Top 5 class ranking for four consecutive semesters (3/51, 4/50, 4/55, 5/54)
- Relevant Coursework: Introduction to Computers and Programming (A+), Linear Algebra (A+), Digital Circuit Design (A+), Probability (A+), Introduction to Database Systems (A+)