YU-ZE LIU

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ABOUT

Yu-Ze is familiar with SoTA **recommender systems** and information retrieval algorithms. In order to gain more hands-on practical industry experience, he took on numerous internship assignments. This **wide-ranging fast learner** is **optimistic**, **energetic**, and now looking for full-time employment to contribute his skills.

EDUCATION

National Taiwan University   Sep. 2022 - Sep. 2024 (Predicted)
Master of Computer Science & Information Engineering, Web Mining & Information Retrieval Lab

· Research Interests: Information Retrieval, Recommender Systems, NLP, Knowledge Graph

National Chengchi University   Sep. 2017 - Jun. 2021
Bachelor of Computer Science, Completed Big Data Analytics Program

· GPA: 3.96 / 4.3   · 1 Dean's List Award

PROGRAMMING LANGUAGES

· Python   · C/C++   · Shell Script   · HTML, JS, CSS   · SQL

TOOLS

· Github   · Pytorch / TensorFlow   · Linux   · Django   · Vue.js, D3.js   · PowerBI   · SQL Server   · openpbs

EXPERIENCE

Machine Learning Intern   Aug. 2023 - Jun. 2024 (Predicted)
Transformation Office, LITE-ON Technology Corp.

· Applied LLM to automatically summarize news, extract entities & generate Mermaid Gantt chart syntax.

Teaching Assistant   Sep. 2022 - Jan. 2023
Department of CSIE, National Taiwan University (NTU)

· Designed a problem requiring I/O Multiplexing & File lock to deal with for Systems Programming Course.

Research Assistant   Jan. 2021 - Aug. 2022
Computational Linguistics & Information Processing Lab., Academia Sinica

· Suggested a method to tackle the title alignment problem in knowledge graph merging via relatively negative sample punishment.

System Architect Intern   Jan. 2019 - Aug. 2019
SYSTEX Corp.

· Implemented a HPC cluster with 2 login nodes (with NIS, NFS), 5 HPC nodes (with high availability) & 3 storage nodes.

SELECTED PROJECTS

Automating the Database Data Update Process   Sep. 2023
LITE-ON Internship

· Improved 80% efficiency for crawling quarterly reports via open-sourced Apache Airflow schedule tool.

Chinese News Summarization with Different Strategies via Fine-tuning mT5   Oct. 2022 - Nov. 2022
Project of Applied Deep Learning

· Fine-tuned & compared the performance of Greedy, Beam Search, and Temperature as generation strategies.

Knowledge Graph's Entity Title Alignment via Reinforced Active Learning Model   Oct. 2021 - Aug. 2022
Collaboration between KKStream and Academia Sinica

· Proposed SBert-guided loss, resulting in a 30.4% improvement in $NDCG@100$ while maintaining the same *Recall* score.

RecDelta: An Interactive Dashboard for Cross-model Evaluation of Top-K Recommendation Feb. 2021 - Feb. 2022
Accepted by SIGIR 2022 demo paper

· Designed and developed a model evaluation visualization tool as the main full-stack developer with Django, Vue.js, and Heroku.

HONORS

Red Hat Certified System Administrator   2020
SYSTEX Cooperation, Red Hat Enterprise Linux 8

Innovation Award of Artificial Intelligence Final Project Exhibition Spring 2023   2023
Department of CSIE, National Taiwan University (NTU), 20 strong opponents