

Hajun Choi

KEYWORD : TABULAR DATA ANALYSIS, LLM, KNOWLEDGE GRAPH

☎ (+82) 10-2568-9986 | ✉ iamthebluekey@gmail.com | 🌐 Hajun_Choi

Education

Computer Engineering

DONG-A UNIVERSITY (DAU)

Busan, S.Korea

2022. 03. - 2028. 02.

- Received competitive scholarships, Busan area talent scholarships, and Cheongchon Scholarship Foundation several times.

Skills

Programming Language

Python Developed data analysis scripts and web applications. Used for many projects below.

C/C++ Implemented high-performance algorithms. used Professional Training.

Java Developed robust backend systems.

Kotlin Created Android mobile applications.

SW Dev

ElasticSearch Enhanced Wikidata search efficiency for faster TD2KG predictions.

Kibana Visualized log data for monitoring.

Kubernetes Managed containerized applications.

Docker Deployed microservices architecture.

Data Analysis Skill

FireBase Implemented real-time databases for mobile apps.

MongoDB Handled large-scale NoSQL databases.

Neo4j Performed graph database analytics.

Apache Spark Processed big data workloads.

PyTorch/Tensorflow Developed machine learning models.

Platforms

Git Version control for collaborative projects.

Aura Developed cloud-native applications.

Atlas Developed cloud-native application.

Research Experience

DAU Data Science Labs – Undergraduate Research Intern

Busan, S.Korea

CONDUCTING AND ASSISTING RESEARCH WITH PROF. JUNGKYU HAN AND PROF. SEJIN CHUN

Nov 2022 - PRESENT

- Proposed and developed a novel methodology for job matching algorithms, which significantly improved accuracy.
- Played a key role in the development and implementation of the algorithm, using Python and machine learning frameworks.
- Collaborated with team members to conduct experiments and analyze data, contributing to the research findings.
- Presented research findings at academic conferences, gaining valuable feedback and enhancing presentation skills.

Professional Training

Fundamentals of Accelerated Computing with CUDA C/C++

Busan, S.Korea

CONTENTS

25 May 2022

AI Big Data Practical Training using Python

Busan, S.Korea

CONTENTS

Jun. 2023 - Aug. 2023

Docker and Kubernetes courses for cloud and server operation

Busan, S.Korea

CONTENTS

8 Jan. 2024 - 19 Jan. 2024

- Learned to use Linux containers to package only the parts that differ from the host OS, sharing the host's resources to provide a more resource-efficient virtualization environment compared to traditional virtual machines.

Project Experience

TD2KG - A System that Predicts the Concept of Data in Table Format

DETAIL

Dec. 2022 - Feb. 2023

- Developed a system that recognizes real-world objects in tabular data to enhance data labeling and semantic representation.
- Achieved high performance and accuracy in the system, demonstrating technical growth in using advanced technologies like Elastic-

Search

NOVEMBER 18, 2025

BalanceUp - Company life balance recommendation system for job recommendation and recommended job based on resume

DETAIL

May. 2023 - Aug. 2023

- Gained technical expertise in deep learning-based recommendation systems and developed skills in creating visual dashboards for data visualization.

Development of information management agent for simulation of production environment through miniatures

DETAIL

Nov. 2023 - Dec. 2023

- Achieved a significant reduction in simulation setup time and costs, demonstrating the effectiveness of the automated protocol generation approach.

CCTV Carbon consumption Trace visualization

DETAIL

Feb. 2024 - Jul. 2024

- Developed for deep learning that manages multiple clouds simultaneously in one computing environment and takes carbon emissions into account.
- Through the implemented dashboard, it is possible to visualize cloud provisioning where deep learning learning is performed and check carbon emissions.

WaveLab AutoML Service

DETAIL

Jul. 2024 - Dec. 2024

- This application provides a robust framework for managing machine learning tasks using a combination of FastAPI, Celery, Streamlit, MongoDB, and Redis.
- The system allows users to upload datasets, select features, choose machine learning algorithms, and execute tasks asynchronously.

Honors & Awards

DOMESTIC

2023	Excellence Award , Employment and Labor Public Data Utilization Contest	Seoul, S.Korea
2023	Excellence Award , AI S/W DevDay : creative convergence software work presentation exhibition	Busan, S.Korea
2024	Grand Prize , Regional Issue Capstone Design Competition	Busan, S.Korea
2024	Excellence Award , Busan-Ulsan-Gyeongnam ICT Innovation Challenge	Busan, S.Korea
2024	Special Award , The 8th Open Cloud Platform (K-PaaS) Service Development and Idea Contest	Seoul, S.Korea
2024	Participation Prize , The 5th University Students' Academia-Industry-Region Idea Competition	Busan, S.Korea

Presentation

Personalized Resume-Job Matching via Graph Contrastive Learning

Seoul, S.Korea

WONSEOK SON, DAERO KIM, SEJIN CHUN, JUNGKYU HAN

May. 2024

- 2024 the Spring Conference of the Korea Multimedia Society.

References

Prof. Jungkyu Han

INTRODUCTION

Professor at DAU, Dept. of Computer Science and Artificial Intelligence, Email: jkhan@dau.ac.kr

Prof. Sejin Chun

INTRODUCTION

- Professor at DAU, Dept. of Computer Science and Artificial Intelligence, Email: sjchun@dau.ac.kr