

TERGEL MUNKHBAT



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<https://tergelmunkhbat.github.io/>

SUMMARY

- Proficient in using TensorFlow and PyTorch for machine learning with two years of experience.
- Possesses five years of experience working with public clouds such as AWS and GCP, as well as private cloud technologies like OpenStack and Kubernetes.
- Successfully designed and implemented a graph-based and transformer-based model at HandPro LLC to translate sign language, resulting in the issuance of a patent.
- Passionate about promoting machine learning and mathematics among young people in Mongolia, with an active presence as a YouTuber.

EDUCATION

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)

M.S. in Artificial Intelligence

Advisor: [Se-Young Yun](#)

Seoul, Korea

09/2023 - Present

NATIONAL UNIVERSITY OF MONGOLIA (NUM)

B.E. in Computer Networking

Advisor: [Ganbayar Uuganbayar](#)

Ulaanbaatar, Mongolia

09/2012 - 06/2016

PUBLICATIONS

[C3] Improving scores of the NetHack Challenge by leveraging transformer architecture

Tergel Munkhbat, Buseung Cho

KICS 2023 Winter

[C2] Evaluation of BBRv2 and PCC Vivace algorithms over KREONet

Tergel Munkhbat, Buseung Cho

KNOM 2021

[C1] Evaluation of the Congestion Control Algorithms for High Performance Data Transfer over KREONet

Tergel Munkhbat, Buseung Cho

ICCC 2020

EXPERIENCE

HAND PRO

03/2022 - Present

Research Advisor

- Work as a part of an AI startup aimed at bridging communication gaps between hearing-impaired individuals and the general population in Mongolia using deep learning models.
- Designed and developed a graph-based and transformer-based model, resulting in a successful issuance of a patent.

KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY INFORMATION

09/2020 - 08/2023

Student Researcher

- Successfully integrated KISTI SENSE applications into the global SENSE infrastructure, ensuring seamless functionality and improved performance.
- Designed and developed a continuous and scalable flow collector utilizing Argus, Apache Hadoop, and Spark, resulting in improved data analysis and processing capabilities.

UNITED ALLIANCE

04/2020 - 07/2020

System Engineer

- Designed and implemented a robust hybrid cloud infrastructure, ensuring maximum uptime and availability.
- Leveraged Ansible automation to streamline daily tasks, resulting in increased efficiency and productivity.

FIBO CLOUD

03/2019 - 04/2020

Cloud Engineer

- Designed and implemented cloud infrastructure solutions based on OpenStack, resulting in the launch of Mongolia's first public cloud computing service in 2019 (<https://cloud.mn/>).
- Led the development of the cloud infrastructure solutions and oversaw the implementation process, ensuring the successful launch and continued operation of the public cloud computing service.
- Successfully retained capital within the country and provided a positive example for engineering students interested in working with emerging technologies.

UNITEL GROUP

06/2016- 03/2019

System Engineer

- Deployed a cloud infrastructure to support system reliability, successfully migrating all systems onto the new infrastructure.
- Implemented automatic evacuation of failed instances in the event of hardware malfunctions or other errors, minimizing downtime and improving system availability.
- Achieved high system availability through the cloud infrastructure, reducing both hardware and energy costs.

TEACHING

USCHOOL.MN

11/2021 - Present

Deep Learning Instructor

Instruct individuals on the fundamentals of neural network architectures such as Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), and Transformers.

MELEARN.MN

07/2021 - Present

Mathematics and Machine Learning Instructor

Offer in-depth explanations of fundamental mathematical concepts related to neural networks and instruct individuals on topics ranging from the basics of neural networks to image generation (GANs) from scratch.

INVITED TALKS

mnNOG 1 (Mongolian Network Operators' Group)

09/2019

How 5G relates to NFV technology

CERTIFICATIONS

TensorFlow Developer Certificate - Google 55590367	07/2022 - 07/2025
DeepLearning.AI TensorFlow Developer Professional Certificate - Coursera QU2J6H77NG9V	04/2022
Applications of AI for Predictive Maintenance - NVIDIA 9dd3aaabe13b40f397ee216f6a4e0462	01/2022
Applications of AI for Anomaly Detection - NVIDIA 5b3e0ba39a274c6c9aa10d5a0d2cd127	01/2022
Fundamentals of Deep Learning - NVIDIA a667a715e9b640778f88113effa610a8	01/2022

HONORS AND AWARDS

1. 2nd prize - International Academic and Research Activities Report Contest (2021)
 2. National Computer Network Olympiad in Mongolia (2014-2019)
 - Gold medal (2016)
 - Silver medals (2014, 2015, 2016, 2019)
 - Bronze medals (2015, 2017)
 3. Best Undergraduate Student - National University of Mongolia (2016 Graduation Ceremony)
 4. Top Performer - Asia Pacific International NetRiders Competition (2016)
 5. Winner - International Friends Scholarship for Mongolia (2013-2014)
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LANGUAGE PROFICIENCY

Native speaker of Mongolian
Professional in English with an IELTS score of 7/9
Conversational in Korean