

# TERGEL MUNKHBAT



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

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## 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.

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## EDUCATION

### KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)

Seoul, Korea

M.S. in Artificial Intelligence

09/2023 - Present

Advisor: [Se-Young Yun](#)

### NATIONAL UNIVERSITY OF MONGOLIA (NUM)

Ulaanbaatar, Mongolia

B.S. in Computer Networking

09/2012 - 06/2016

Advisor: [Ganbayar Uuganbayar](#)

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## 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

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## 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.

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## 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.

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## INVITED TALKS

mnNOG 1 (Mongolian Network Operators' Group)

09/2019

*How 5G relates to NFV technology*

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## 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

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## 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