

# Minki Chung

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This document is updated on July 3<sup>rd</sup>, 2024

## RESEARCH INTEREST

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Machine Learning / Deep Learning / MLOps / LLMOps

## EDUCATION

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Sep 2016 – Aug 2018 M.S. in Industrial Engineering (Datamining Lab.)  
Seoul National University, Republic of Korea

Advisor: Sungzoon Cho

Feb 2011 – Aug 2016 B.S. in Industrial Engineering  
KAIST, Republic of Korea

## WORK EXPERIENCE

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Mar 2023 – Mar 2024 Harpy Chat, Seoul, Republic of Korea  
CTO and Co-Founder. AI-powered character chat service. Received seed funding and reached 400,000 users. (Fullstack, any technique involved in product development - NextJS, NestJS, Supabase, vLLM, AWS, etc)

Jul 2021 – Mar 2023 Krafton, Seoul, Republic of Korea  
MLOps Engineer, Deployed an AI-powered text-to-speech live service. (Kubernetes, AWS)

Apr 2021 – Jun 2021 Vuno, Seoul, Republic of Korea, Alternative military service  
DL platform engineering team. (Mlflow, Kubernetes)

Aug 2018 – Apr 2021 Vuno, Seoul, Republic of Korea, Alternative military service  
Chest X-ray team. Abnormalities detection. (PyTorch)

May 2016 – Aug 2016 Kiswe Mobile, New Jersey, USA  
Development Internship. Developed a prototype to provide an interactive experience for users watching sports through the Kiswe Android mobile app. (Javascript, D3)

May 2016 – Dec 2016 Mozzet, Seoul, Republic of Korea  
Freelancer. Developed an automatic face scoring model for mobile application with deep learning. (Tensorflow)

## **PUBLICATIONS**

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- *M Chung, ST Kong, B Park, Y Chung, KH Jung, JB Seo, "Utilizing Synthetic Nodules for Improving Nodule Detection in Chest Radiographs", Journal of Digital Imaging(JDI), 2022*
- *Y Lee, M Chung, S Cho, J Choi, "Extraction of product evaluation factors with a convolutional neural network and transfer learning", Neural Processing Letters, 2021*
- *W Bae, S Lee, Y Lee, B Park, M Chung, KH Jung, "Resource optimized neural architecture search for 3D medical image segmentation", Medical Image Computing and Computer Assisted Intervention–MICCAI, 2019*
- *Dohyung Kim, Minki Chung, Hyochang Yang and Sungzoon Cho, "Squeezed Convolutional Variational AutoEncoder for Unsupervised Anomaly Detection in Edge Device Industrial Internet of Things", International Conference on Information and Computer Technologies(ICICT), 2018*

## **COMPETITONS & AWARDS**

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Jan 2021	Kaggle, BirdCLEF 2021 - Birdcall Identification Silver Medal (35/828)
Mar 2021	Kaggle, VinBigData Chest X-ray Abnormalities Detection Silver Medal (40/1277)
Nov 2019	Kaggle, RSNA Intracranial Hemorrhage Detection Silver Medal (16/1345)
Oct 2018	Kaggle, RSNA Pneumonia Detection Challenge Silver Medal (23/1499)
Sep 2015	Korean Institute of Industrial Engineers(KIIE) Undergraduate Contest 1 <sup>st</sup> prize

## **ADDITIONAL RESEARCH EXPERIENCE**

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Mar 2017 – Dec 2017	Samsung Electronics Industry-academic cooperation. Unsupervised Anomaly Detection Technique on Edge Device.
Jan 2018 – Apr 2018	LG Electronics Industry-academic cooperation. Semi-Supervised Learning based Air Conditioning Load Prediction.

## **EXTRA ACTIVITIES**

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Mar 2014 – Feb 2015	Engineer Without Borders, KAIST, Daejeon, Republic of Korea
Jun 2013 – Aug 2013	Cledor Marketing Adventure 9 <sup>th</sup> , Binggrae, Seoul, Republic of Korea
Mar 2012 – Dec 2012	President, Hiphop Dance Crew, KAIST, Daejeon, Republic of Korea
Oct 2012 – Jan 2014	Mentor, STX Volunteer, Daejeon, Republic of Korea
Mar 2015 – Jul 2015	Exchange student, Tsinghua University, Beijing, China

## **SKILLS**

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- Deep Learning: PyTorch
- Infra/Deployment: Kubernetes, Terraform, GitHub Action
- Platform: AWS, GCP
- Frontend: React, Next.js
- Backend: FastAPI, Nest.js

- Languages: English(IBT 204, TEPS 874), Chinese(HSK 4),  
Korean(mother tongue)