

Hongseok Oh

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Seasoned AI Research Engineer with over 3 years of hands-on experience in developing and deploying state-of-the-art deep learning models in the audio and speech domain for a startup. Leveraging a strong academic background in machine learning and statistics, I am now pursuing a Master's in Computer Science and Engineering at University of California, San Diego to thrive as an AI/ML engineer.

WORK EXPERIENCES

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|---|---|
| Deeply Inc.
<i>AI Research Engineer</i> | Nov. 2020 - Jul. 2023
Seoul, Republic of Korea |
| <ul style="list-style-type: none">• Developed over 10 deep learning models with PyTorch, resulting in 3 service productions and 4 demo presentations• Conducted 2 deep learning-based researches in speech and audio domain, leading to 1 academic paper under review | |
| Deeply Inc.
<i>Data Scientist Intern</i> | May 2020 - Oct. 2020
Seoul, Republic of Korea |
| <ul style="list-style-type: none">• Designed and executed data collection protocols for government-funded AI data construction projects [Link 1, 2, 3]• Trained human nonverbal vocalization classifier and infant cry sentiment classifier [Link] with TensorFlow | |

EDUCATION

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| University of California, San Diego
<i>Master of Science in Computer Science and Engineering</i> | Sep. 2023 - Jun. 2025 (Expected)
San Diego, CA, United States |
| <ul style="list-style-type: none">• Specialized in Artificial Intelligence | |
| University of California, San Diego
<i>Education Abroad Reciprocal Exchange Program</i> | Dec. 2018 - Jun. 2019
San Diego, CA, United States |
| <ul style="list-style-type: none">• GPA: 3.57/4.0 | |
| Yonsei University
<i>Bachelor of Science in Information and Industrial Engineering</i> | Mar. 2014 - Feb. 2022
Seoul, Republic of Korea |
| <ul style="list-style-type: none">• GPA: 3.66(4.0⁺)/4.3 (⁺ Last 2 Years GPA) | |

SELECTED PROJECTS

- | | |
|---|-----------------------|
| Audio Domain Adaptation Through Microphone Conversion | Oct. 2022 - Jul. 2023 |
| <ul style="list-style-type: none">• Technologies: CycleGAN, data augmentation, Python, PyTorch• Description: Built a generative model simulating microphones' properties without modifying acoustic information• Impact: Outperformed previous SoTA methods by 5.1 - 11.4% increase in F1 score, enhancing model robustness | |
| Respiratory Sound Classification for Elderly Monitoring System [Link] | Nov. 2021 - Mar. 2023 |
| <ul style="list-style-type: none">• Technologies: Pre-trained network, knowledge distillation, Python, PyTorch• Description: Developed a sound event classifier with a pre-trained Transformer for elderly health monitoring• Impact: Boosted inference speed by 80% via knowledge distillation, aiding real-time monitoring for 300+ elders | |

SKILLS

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| Technical | <ul style="list-style-type: none">• Python<ul style="list-style-type: none">▸ Deep learning framework: PyTorch, TensorFlow, Keras▸ Digital signal processing & Image processing: TorchAudio, Torchvision, Librosa• Bash, Git, SQL, GCP |
| Language | <ul style="list-style-type: none">• Korean: Native• English: Full Professional Proficiency• Spanish: Limited Working Proficiency |