

Yehjune Heo

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EDUCATION

The University of Texas at Austin — Austin, TX	May 2026
<i>Bachelor of Science in Electrical and Computer Engineering Honors</i>	

Projects

Optical Flow Implementation on Fingerprint Anti Spoofing Experiment	Jun 2021 – Jul 2021
<ul style="list-style-type: none">Implemented the RAFT optical flow model on video-based fingerprint recognition systemsManipulated codes and data structures for the model to fit my fingerprint datasetAnalyzed the results on anti-spoofing abilities using performances based on CNN	
Inspirit AI	May 2021 – Jul 2021
<ul style="list-style-type: none">Led a team to research the efficiency of BOW and GloVe method when detecting fake newsDiscussed various machine learning applications for global problem-solving purposes	
Zombie Shower Game Development	Aug 2019 – Mar 2020
<ul style="list-style-type: none">Created and published a 2D mobile game and published on google play storeServed as the team leader and the main programmer	

Experience

Part-Time Job — Yongin, KO	Jun 2022 – Jul 2022
<ul style="list-style-type: none">Completed recruiting process in one day and worked as a waiter at a face-paced environment	

Publications

Generative Adversarial Network Based Fingerprint Anti-Spoofing Limitations, WASET	Jul 2021
<ul style="list-style-type: none">Generated fake images using StyleGAN for the live and spoof fingerprint datasets, and compared the anti-spoofing performance of CNN models to evaluate limitations on CNN-based anti-spoofing	
Loss Function Optimization for CNN Based Fingerprint Anti-Spoofing, WASET	Jul 2021
<ul style="list-style-type: none">Compared CNN models' efficiency on the fingerprint database associated with the accuracy, memory usage, and the amount of time for output in the aspect of different loss functions and optimizers	
Comparative Analysis of CNN Approaches for Fingerprint Anti-Spoofing, KSCY	Jun 2021
<ul style="list-style-type: none">Analyzed anti-spoofing performances for various CNN model including AlexNet, VggNet, ResNet, etc	

HONORS & AWARDS

Certificate Associate in Python Programming , Python Institute	Jul 2021
DeepLearning.AI TensorFlow Developer Professional Certificate , DeepLearning.AI	Jul 2021
Google IT Support Professional Certificate , Google	Jul 2021
IBM AI Engineering Professional Certificate , IBM	Jun 2021
IBM Data Science Professional Certificate , IBM	Jun 2021
Mathematics for Machine Learning Specialization , Imperial College London	Jun 2021

SKILLS

Programming: Python, JavaScript, C++, C#, MATLAB, Microsoft Office
Languages: English(fluent), Korean(fluent), Chinese(beginner)