Taeyun Kim

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Research Interest

3D vision, AI, graphics

My primary research interest lies in the field of 3D vision and graphics, with a specific focus on utilizing AI for 3D scene reconstruction from 2D image views.

Education

Barchelor of Transdisciplinary Studies, DGIST (Daegu, South Korea) (2019.03 - current)

- Major track in **Computer Science**
- GPA: 4.05 / 4.3

FGLP (Freshmen Global Leadership Program) (2019.07 - 2019.08)

- University of California, Berkeley, California, USA
- GPA: 4.3 / 4.3

Exchange Program in Seoul National University (2023.03 - current)

Honors and Awards

Scholarship

- DGIST Presidential Fellowship (2020 - current)
- Dean's List (3)

Work Experience

- Web-frontend develop intern at CLASSUM (2022.10 - 2023.02)
- Student Researcher at HASS(High-Assurance Software Systems) Lab, DGIST (2022.03 - 2022.06)
- Student Researcher at VILS(Vehicle in Loop Simulation) Lab, DGIST (2021.09 - 2022.05)
  - Developed **SCC and AEB system** of an **autonomous vehicle and o**btained a license for autonomous driving.
  - Invested fusioning **vison data** of Mobileye and **point cloud data of** LiDAR to enhance accuracy of object detection**.**

    - Conducted research developing an AI model that can recognize unknown dangers in road scenes by training on previously unseen data with **pytorch**.
- Internship at CSI(Cyber-Physical Systems Integration) Lab, DGIST (2021.07)
- Student Researcher at BRAIN(Brain Robot Augmented InteractioN) Lab, DGIST (2020.05 - 2020.12)
    - Trained **machine learning and deep learning models** to predict a driver's level of sleepiness based on brain signals.

Projects & Studies

KAIST Madcamp (2022.07)

UGRP (Undergraduate Research Program) (2021.03 - 2021.11)

Researched **indoor localization** of autonomously guided vehicles. I developed a distance-based technique for estimating location, and **LSTM networks** to study the trend of past paths and predict the next location.

Coursera/Edx Course Certificates

Computer Graphics from UC San DiegoX (2022.12.18)

Applied Data Science with Python from University of Michigan (2020.12.20)

Quailificaitons

- TOFEL (iBT) 105 / 120 (Available through 2023.09.04)

Technical Skills

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Very familiar with the language/library, Conducted more than one project using it, Can write code without searching references.	Familiar with the language/library, Conducted more than one project using it, Can write code with searching references and googling.	Have ever used language/library, Can comprehand the code written of it, Can write code with searching referencies and googling.

Programming Languages

- C, C++ , Python (***)
- Javascript, Typescript, Dart (**)

Frameworks / Libraries

- Scikit-learn, Keras, Pytorch, ROS, OpenCV (**)
- OpenGL(*)
- React, Redux (***)
- Flutter (**)