

# SEUNGMIN LEE

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## Education

### Kyunghee University

May. 2015 – Feb. 2022 (Expected)

*Bachelor of Engineering in Computer Engineering*

- Received Kyunghee University Superiority Scholarship (2016, 2018, 2019, 2020)

## Relevant Coursework

- Datacenter Programming
- Computer Operating System
- Open source SW Development
- Data Structures
- Computer Networks
- Information Security
- LINUX System Programming
- Computer Architecture

## Experience

### KIST Europe

Aug. 2019 – Jan. 2020

*Research Assistant Intern*

*Saarbreucken, Germany*

- Improved package invoice image classification model accuracy by expanding data set, solving data imbalance problem.
- Created data set expansion automation script using Python and OpenCV.
- Implemented external module communication feature to smart factory equipment utility based on C++ MFC.
- Explored ways to detect hand gestures using object detection.

## Projects

### Humidifier Automation by Sensing Room Atmosphere | *Python, Flask, C, Docker*

December 2020

- Built room atmosphere sensor using ESP8266 board.
- Developed Flask server receives sensor data and sends data to Adafruit service, which can control humidifier.
- Created docker image and containers to run Flask server in own NAS.

### Face Detection Screensaver based on Web Environment | *Tensorflow.js, AWS S3, AWS Rekognition* November 2020

- Implemented in-browser face detection feature using Tensorflow.js's pose estimation model.
- Created face discrimination feature using AWS Rekognition face comparison request.
- Developed web server for handling page transition request using node.js.
- Won hackathon held by university: **2nd place**

### Estimating Covid-19 Risk using Object Detection | *Python, Darknet, YOLOv3, OpenCV*

September 2020

- Built mask wearing and person detection image data set using YOLO annotation format.
- Trained object detection model based on YOLOv3.
- Optimized hyper parameters of object detection model.
- Created scene detection feature based on Places365-CNN.

### University Facility Reserve Service | *Python, Flask, MySQL*

October 2018

- Created a Flask template from design sketch.
- Developed Flask web server for service.

## Technical Skills

**Languages:** C++, C, Python, HTML/CSS

**Developer Tools:** VS Code, AWS, Google Cloud Platform

**Technologies/Frameworks:** Linux, GitHub, Docker, Kubernetes, STL, Tensorflow

## Extracurricular

### 42Seoul

May. 2021 – Present.

*Cadet (Learner)*

*Innovation Academy*

- Involved 1 month of intense selection process, "Piscine".
- Cultivated communication skills by having a large number of peer evaluation with others.
- Learned how to participate well in developer community.

### Khu-Makers

Mar. 2019 – Aug. 2019

*Member*

*Kyunghee University*

- Learned how to use 3D printers, laser cutter and 3D modeling software.
- Assisted maker space's education courses.
- Held promotion booth to inform university students about maker space and "making" culture.
- Participated UnivExpo 2019 and presented our works to public.