

SUNG RUNG YOO

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Texas A&M University – College Station, Texas

Bachelor of Science in Computer Science

Skill Sets: mysql, flask, react, python, c++, ruby, java, javascript, deep learning

Expected Graduation Date: Dec, 2023

Current GPA: 3.40

Work Experience

Software Engineer Intern at Trane Technologies (CO-OP)

Date: May/2022 ~ Current Used: Python, Ruby, mysql

- Implemented dynamic log in the system using threading
- Used mysql to keep track of which information is needed by the user
- Implemented test coverage and test cases
- Converted log file into a json formatted data using hash table and parsing

Research Assistant at Soft Interaction Lab

Date: Jan/2022 ~ May/2022 Used: Python(Flask), HTML, CSS

- Ordered data by the popularity of posts by having an importance level as entity for each post
- CRUD implementation with Flask and sqlite
- Implemented highlighting feature that can classify important and non important posts

Publication

Journal Publication: Denoising image using Deep Learning under severe noise environment

Published Date: Nov, 18 2021

- Developed an algorithm called Frame Generative Neural Network to denoise an image that has an extremely high PSNR value.
- Using multiple pretrained U-Net Models and combining outputs, it further improves denoising performance from traditional methods to remove noise.

Side Projects

Game Tutorial Website

Used: Python (Flask), React, mysql, pokeAPI

- Gets the types and images of pokemon from pokeAPI
- Using Dictionary, it displays the types that it is weak against the opponent's pokemon
- Using a Link List, it also shows the evolution of each pokemon

Korean Language Tutorial Chatbot

Used: Python (Tensorflow, Flask)

- Neural Network implementation that uses encoder to understand user's input and decoder to respond to give valid output and LSTM.
- Uses two separate neural networks and output based on the higher scored network.
- Show the user how to say each korean word in correct pronunciation.