

Suyeong An

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<https://godtn0.github.io>

Education

Korea University

Seoul, Republic of Korea

- Bachelor of Science in Computer Science and Engineering
Major GPA: 4.47/4.5, Cumulative GPA: 4.31/4.5
Mar. 2017 – Present
 - Relevant coursework: Linear Algebra, Statistics and Probability, Basic Statistics, Discrete Mathematics, Probability and Random Process, Engineering Mathematics, Operating System, Theory of Computation, Data Structure, Algorithms, Data Science, Computer Architecture, Artificial Intelligence, Machine Learning, Deep Learning.
 - (MOOC) Reinforcement Learning, Deep Learning(Computer Vision);
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Experience

- **CVLAB**, Korea University
Undergraduate Researcher (Advisor: Prof. Seungryong Kim)
◦ Research text-guided(multi-modal) image to image translation
Seoul, Republic of Korea
Dec. 2020 – Present
 - **Sycros - Alternative Military Service**
Deep Learning Researching and Engineering for Time Series Dataset
◦ Research computer resources, like CPU Usage, Memory Usage, Packet transfer amount, forecasting using deep learning for time series dataset.
Seoul, Republic of Korea
Sep. 2020 – Present
 - **VoyagerX - Internship**
Software Engineer with Video Processing
◦ Implement video editor with deep learning for video
 - Using React.js and Tensorflow.js, researching and engineering deep learning model to detect acne and to extract landmark from human face in video.Seoul, Republic of Korea
Mar. 2020 – Aug. 2020
 - **POG Korea - Developer**
Software Engineer with Video Processing
◦ Implement parking assistance service with video processing
 - Using classical methods and deep learning of computer vision to segment the car and parking slot using C++(OpenCV) and python(OpenCV, Tensorflow).Seoul, Republic of Korea
Jan. 2019 – Sep. 2019
 - **Artificial Intelligence Lab**, Korea University
Undergraduate Researcher (Advisor: Prof. Dongsuk Yook)
◦ Resolving pipelined back-propagation problem
Seoul, Republic of Korea
Dec. 2018 – Mar. 2019
 - **Microsoft Student Partner**
Announcing Microsoft's Azure Service
◦ Announcing Azure Machine Learning Studio
Seoul, Republic of Korea
Aug. 2017 – Dec. 2018
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Projects

- **Text-Guided Image to Image Translation** [[code](#)] Jan. 2021 - Apr. 2021
 - Extracting visual and text representation by the contrastive learning way and modify the image to fit the given text.
 - **Computer Resources Forecasting** Sep. 2020 - Present
 - Researching computer resources forecasting, CPU Usage, Memory Usage, Packet In/Out amount, etc, using statistics model and deep learning model like LSTM and Transformer based model.
 - **Question Answering Network for Physical Reasoning** [[paper](#)] Oct. 2019 - Dec. 2019
 - Combined DQN with question & answering module to make agent understand physical concepts.
 - **Speech Recognition Using Baum-Welch Algorithm with GMM** Sep. 2018 - Nov. 2018
 - Implement number speech recognition using Baum-Welch algorithm and Viterbi algorithm with Gaussian Mixture Model.
 - **Voice Data Analysis Using DNN and Product Recommendation System** Mar. 2019 - Jun. 2019
 - Analysis the age and gender information of speaker using deep neural networks.
 - Recommend product with maximizing profit using history of purchase.
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