Sooyoung Moon

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EDUCATION	**University of Arizona (UA)**	(Expected) Aug 2021
	• Bachelor of Science in Computer Science; 3.7 / 4.0 GPA	
	Kookmin University (KMU)	Aug 2017
	• Bachelor of Science in Department of Advanced Fermentation Fusion Science and Technology	

RELEVANT COURSEWORK

Object-Oriented Programming and Design, Algorithms, Analysis of Discrete Structures, Principles of Operating Systems, Web Programming, Data Visualization, Database Design

SKILLS

Python, HTML, CSS, Scrapy, Requests, Selenium, D3.js, Django, MariaDB, MongoDB, PostgreSQL, PyTorch, Keras, TensorFlow, React, Java, C

AWARDS

Best use of Google Cloud, **Totalvery**, Black Wings Hacks, 2021

2nd prize, **Neural Style Transfer in PyTorch**, the Computer Science Project Showcase, UA, 2019

INDUSTRY EXPERIENCE

YesPlz AI, Sunnyvale, CA   Apr 2020 – May 2020
Software Engineer Intern - Remote
• Created a database on **PostgreSQL** and built a data pipeline
• Visualized data with **D3.js** to identify features of trending products

CORETech, South Korea   Jan 2018 – Dec 2018
AI Assistant Research Engineer
• Trained deep learning model **2k episodes** faster using data preprocessing in the Atari game environment
• Implemented the **deep recurrent Q-network (DRQN)** model in **Keras**
• Made the model be able to break almost of bricks as if humans were playing in the Atari Breakout

PROJECTS

API for Totalvery in Django   Jan 2021
Created a web API using Python Requests and Django REST framework in order to aggregate data from UberEats, DoorDash, and GrubHub for an app called Totalvery that is supposed to compare fees from delivery service apps

Simple Among Us in Java   Dec 2020
Simply implemented a game called Among Us using Java

Yelprizona for Hack Arizona 6.0 in Django   Jan 2020
Crawled Yelp and visualized the change in popularity of good places around Arizona from 2007 using D3.js

Mukvantgarde in Django   Sep 2019
Implemented a web demo visualizing the data about the popularity and location of Korean restaurants

Convolutional Neural Network in PyTorch   Oct 2018
Implemented Convolutional Neural Networks (LeCun et al., 1998)

Policy Gradient in TensorFlow   May 2018
Implemented Policy Gradient Methods for Function Approximation (Sutton et al., 2000)

LEADERSHIP

Leader of a Study Group for Artificial Intelligence   Mar 2018 – Dec 2018
• Recruited group members for studying deep learning and reinforcement learning

Brain Study Club Leader   Jan 2017 – Sep 2018
• Motivated members as a leader for studying neuroscience, cognitive science, and artificial intelligence

ACTIVITIES

Interdisciplinary Program in Brain Science, Seoul National University   Jun 2017 – Sep 2017
Research Member (Advisor: Prof. Seungbok Lee)
• Observed neuromuscular junctions of *Drosophila melanogaster* larvae using a confocal microscope

POSTER

S. Moon, S. Kim, Y. Lee, The taste study of bitter compound, nicotine in *Drosophila,* In *2016 the Korean Society for Microbiology and Biotechnology (KMB) the 43rd Annual Meeting and International Symposium*, 2016