

Kyu-Hwan Shim

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INTERESTS	Deep Learning, Application of Language Model	
WORK EXPERIENCE	Machine Learning Engineer Intern, Nota Inc. Seoul, Korea ▪ Intelligent Traffic System AI Model Development Team ▪ Develop Vision-based AI models - based on Object Segmentation and its applications ▪ Performance Evaluation with Edge Devices (NVIDIA AGX Orin) Senior Designer, OCONNECT Ulsan, Korea ▪ Student Startup which makes Easy-Insert Socket, OneStep (CEO Hyeong-Jun Bang) ▪ [R&D PRJ] at Didimdol R&D start-up growth technology '22 ▪ [Achievement] Winner @ James Dyson Award '22 KR, Ulsan Collegiate Startup Competition	Mar 2023 – Present Jun 2020 – Feb 2023
EDUCATION	Sogang University , Seoul, Korea ▪ B.S. in Computer Science Chungnam Science High School , Kongju, Chungnam, Korea ▪ H.S.D. in Informatics	Mar 2019 – Presents Mar 2016 – Feb 2019
MILITARY DUTY	Yeongdong Firestation , Yeongdong, Chungbuk, Korea ▪ Korea Conscripted Firefighters Agency, Yeongdong Rescue & Firehouse	Aug 2020 – Apr 2022
AWARDS	Grand Prize (1st Place) , Gangseo-gu Office ▪ [PPT] Risk Rating Model for Small Business Owners in Gangseo-gu using the Credit Rating Model • Mayor of Gangseo-gu Office Award Grand Prize (Runner-up) , NIA, Minister of Science & Technology ▪ BIGCONTEST Data Analytics Innovation League 2022 Grand Prize (Runner-Up) • Nat'l Information Society Agency (NIA) President Award ▪ [PPT] [PRJ] Carbon Footprint Calculator & Eco-friendly JEJU travel route RecSys. Excellence Award , Chung-nam Science Fair (64th) ▪ [Poster] Solar Power System considering the impact of Wave Height Special Prize , Chung-nam Science Fair (63th) ▪ [Poster] Laser Cutting Machine Using Mechanum Wheels	2023 2022 2018 2017
SCHOLARSHIPS	Sogang Alumni Scholarship , Sogang University Alumni ▪ 1-semester full scholarship - General (2020), Startup (2022) Albatross Scholarship , Sogang University ▪ 1-year full scholarship for talent in SW Fields Myunghak Scholarship , Kongju Myunghak Scholarship Samsung Dream Scholarship , Samsung Dream Scholarship Foundation	2020, 2022 2019 2017 2016
CERTIFICATES	Certificate in Tensorflow Developers , Tensorflow Certificate Program Advanced Data Analytics Semi-Professional , Korea Data Agency ITQ OA Master for Microsoft Powerpoint, Excel, Hancor Hangul GTQ Lv-2 for Adobe Photoshop	Oct 2021 – Oct 2024 Apr 2021 Oct 2011 Oct 2011
ACTIVITIES	LG Aimers : Online AI Education & Hackathon, LG AI Research & DACON ▪ Subject : Smart Factory Product Quality Status Classification AI Online Hackathon ▪ Phase 3 Online Hackathon Finalist, Phase 2 Top 29 (3%, 29/891) INSIGHT : Data Analyst, Business School of Sogang U. ▪ Data Analysis & ML/DL Leading TA, Various Projects (RecSys, NLP, etc.) Round 1 , Google Code Jam Co-Founder, Chief Design Officer, Programmer , OCONNECT	Jan 2023- Mar 2023 Sep 2022- Jun 2023 Jul 2021

	<ul style="list-style-type: none"> Assist developing ONESTEP, an easy-insert socket 	Feb 2021- Present
	Google Machine Learning Bootcamp , Google Korea	
	<ul style="list-style-type: none"> Coursera DL Specialization, Certificate in Tensorflow Developers Kaggle Competition, Online Webinar & Tech Talks 	Sep 2021- Dec 2021
	Sogang ICPC Team , Sogang University CSE	
	<ul style="list-style-type: none"> Algorithm Problem Solving Group 	Mar 2019 – Present
PROJECTS	Risk Rating Model for Small Business Owners using the Credit Rating Model	Mar 2023 –May 2023
	<ul style="list-style-type: none"> [Award] [PPT] Mayor of Gangseo-gu Office Award Integrated data in Gangseo-gu, focusing on data from the Seoul Credit Guarantee Foundation Risk Rating model for small business owners in Gangseo-gu using the credit rating model [Link]Creating a Risk Index Dashboard with Tableau [My Job] Data Analysis & Processing, Designing Presentation [Team NUNETTINE] Heejin Park, Mijung Bang 	
	Development of Carbon Footprint calculator	
	& Eco-friendly travel route recommendation system in Jeju Island	Sep 2022 – Oct 2022
	<ul style="list-style-type: none"> [Official Project Link] Innovation League Grand Prize (Runner-Up) @ BIGCONTEST '22 <ul style="list-style-type: none"> [Award] [PPT] Nat'l Information Society Agency (NIA) President Award [My Job] Develop with Streamlit & Deploy with Streaming Sharing, Design an Official Project Webpage, CI/CD with GitHub <ul style="list-style-type: none"> Assist on applying NLP methods and designing an user-specific ML algorithm [1] Carbon Footprint Calculator Construct Carbon Footprint Calculator by Travel Area <ul style="list-style-type: none"> Defined Categories : Traffic, Food, Accommodation and Tourism Crawling raw data from 'VISIT JEJU' & 'NAVER Map' Processing & Cleansing & EDA and Design Calculator Logic for those 4 categories [2] Eco-Friendly & User-Specific JEJU Travel Route Recommender System <ul style="list-style-type: none"> [Traveler Feature Hexagon] Deployed with Streamlit [Link] Score Calculation by Tourist Spot with NLP, Word2Vec, t-SNE, Clustering [Link] Rule-Based Machine Learning Algorithm [Team DAVENGERS] Jeonghyun Ha, Kyunghoon Na, Kyungjoo Ko, Hannah Jung Skill Stack <ul style="list-style-type: none"> Main Language : Python Library : Pandas, Streamlit, Matplotlib, Plotly, Seaborn, NumPy, GeoPy Develop Environment : Jupyter Notebook, Google Colaboratory (Windows 10, Mac OS X) Deployment : Streamlit Sharing CI/CD & Cooperation with GitHub 	
	Shell Project , System Programming, Sogang University	Apr 2022 – Apr 2022
	<ul style="list-style-type: none"> [GitHub Link] Design my own Shell which translates user's command to the Kernel [1] Built my own linux shell with C Language, which executes with Linux Basic Command such as 'cd', 'mkdir', 'rmdir', et al. [2] Create child process with 'fork()' function, and parent process create a new child process for each instruction by parsing from a Pipelined command. 	
	Stock Server Project , System Programming, Sogang University	May 2022 – May 2022
	<ul style="list-style-type: none"> [GitHub Link] Construct a concurrent stock server which can be connected by multiple clients that ask to buy or sell stocks concurrently [1] Two Approaches to serve stock server : Event-based, and Thread-based [2] Show the status of current stock written from stock.txt file After command exit() from the server, update stock.txt file with the rewritten stock status 	
MEDIA	'Nunettine' wins Grand Prize at Gangseo-gu Big Data Contest , Sogang People	May 2023
	'DAVENGERS' wins '22 BIGCONTEST Data Analytics Innovation League , Sogang People	Dec 2022
	UNIST venture 'OCONNECT' wins James Dyson Awards 2022 , UNIST Press	Sep 2022
SPEECH	<ul style="list-style-type: none"> Shinhan Card & World Bank Workshop to promote Carbon Neutrality : as Winner of BIGCONTEST 	

LANGUAGES

- Korean: Native / English: Fluent Hanja : Lv-3 (Korea Association for the Promotion of Hanja Edu.)

SKILLS

- ML Framework: PyTorch, TensorFlow / Programming Language: C/C++, Python (Intermediate), Verilog, MATLAB, Assembly Language, L^AT_EX (Novice)