

# Kyuhwan Shim

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[Office] Institute of Computer Technology, Room 414 (CRAIG), Seoul Nat'l University

INTERESTS	Vision-Language Model	
EDUCATION	<b>Sogang University</b> , Seoul, Korea	
	▪ B.S. in Computer Science (RecSys A+, ML A0)	Mar 2019 – Aug 2024
	<b>Chungnam Science High School</b> , Kongju, Chungnam, Korea	
	▪ H.S.D. in Informatics	Mar 2016 – Feb 2019
WORK EXPERIENCE	<b>AI Researcher, Seoul Nat'l U. AIIS</b> Seoul, Korea	Mar 2024 – Presents
	▪ [Team Tidyboy@RoboCup'24] General Purpose Service Robot & Human-Robot Interaction	
	<b>Machine Learning Engineer Intern, Nota Inc.</b> Seoul, Korea	Mar 2023 – Aug 2023
	▪ [Vision] Develop YOLO-based AI models for Intelligent Traffic System	
	▪ [Edge AI] Inference Traffic Data Extractor Model on NVIDIA AGX Orin (at Deepstream 6.1.)	
	▪ [MLOps/DevOps] Construct ML Pipeline on kubeflow, AWS data lake, Git Action	
	<b>Senior Designer, OCONNECT</b> Ulsan, Korea	Jun 2020 – Feb 2023
	▪ Student Venture which makes Easy-Insert Socket, OneStep (CEO Hyeong-Jun Bang) [R&D Didimdol]	
	▪ [Achievement] Winner @ James Dyson Award '22 KR, Ulsan Collegiate Startup Competition	
RESEARCH EXPERIENCE	<b>Undergraduate Student Researcher, BI Lab</b> , IPAI@Seoul Nat'l U., Korea	Dec 2023 – Aug 2024
	<b>Mentee, Lee Lab</b> , Data Science@Seoul Nat'l U. & Google Korea	Dec 2023 – Feb 2024
MILITARY DUTY	<b>Yeongdong Firestation</b> , Yeongdong, Chungbuk, Korea	Aug 2020 – Apr 2022
AWARDS	<b>2nd Place</b> , Data Science@Seoul Nat'l U	
	▪ Chest X-Ray Analysis with TorchXRay	2024
	<b>Grand Prize (1st Place, Mayor of Gangseo-gu Office)</b> , Gangseo-gu Office	
	▪ [PPT] Risk Rating Model for Small Business Owners using the Credit Rating Model	2023
	<b>Grand Prize (Nat'l Information Society Agency President Award)</b> , NIA, Minister of Sci. & Tech.	
	▪ BIGCONTEST Data Analytics Innovation League 2022 Grand Prize (Runner-Up)	
	▪ [PPT] [PRJ] Carbon Footprint Calculator & Eco-friendly JEJU travel route RecSys.	2022
	<b>Excellence Award</b> , Chung-nam Science Fair (64th)	
	▪ [Poster] Solar Power System considering the impact of Wave Height	2018
	<b>Special Prize</b> , Chung-nam Science Fair (63th)	
	▪ [Poster] Laser Cutting Machine Using Mechanum Wheels	2017
SCHOLARSHIPS	<b>Sogang Alumni Scholarship</b> , Sogang University Alumni	
	▪ 1-Semester full scholarship - General (2020), Startup (2022)	
	▪ Priest Villarreal Memorial (2023-2024) [Sponsored by SMILEGATE]	
	<b>Albatross Scholarship</b> , Sogang University [talents in SW Fields]	2019
	<b>Myunghak Scholarship</b> , Kongju Myunghak Scholarship	2017
	<b>Samsung Dream Scholarship</b> , Samsung Dream Scholarship Foundation	2016
ACTIVITIES	[Samsung AI Challenge / SAIT] Camera-Invariant Domain Adaptation Challenge	
	▪ [DACON] Domain Adaptive Semantic Segmentation Alg. Robust to Camera Characteristic Changes	
	▪ [Link] Top 30 with SePiCo & Joined Talent pool of Samsung Electronics	Sep 2023- Sep 2023
	[LG Aimers / LG AI Research]: Online AI Education & Hackathon	
	▪ [DACON] Smart Factory Product Quality Status Classification AI Online Hackathon	
	▪ Phase 3 Online Hackathon Finalist, Phase 2 Top 30 (3% for 891)	Jan 2023- Mar 2023
	<b>INSIGHT</b> , Data Science Group @ Sogang Business School	Sep 2022- Jun 2023
	<b>Co-Founder, Chief Design Officer, Programmer</b> , OCONNECT	Jun 2020- Present
	<b>Google Machine Learning Bootcamp</b> , Google Korea	Sep 2021- Dec 2021



# OCONNECT

<http://oconnect.kr>



ONE STEP, an easy to plug in outlet

<b>REP.</b>	CEO <b>Hyeong-Jun Bang</b>		
<b>MEMBERS</b>	CTO <b>Jinseo Park</b> CDO <b>Kyuhwan Shim</b>		
<b>LOCATION</b>	UNISPARK, UNIST Bldg. 307 1F, 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan, Republic of Korea		
<b>AWARDS</b>	<ul style="list-style-type: none"><li>▪ <b>JAMES DYSON AWARD 2022 - Nat'l, Korea</b>, James Dyson Foundation<ul style="list-style-type: none"><li>▫ Winner (TOP 3), International Competetion Jul 2022</li></ul></li><li>▪ <b>PIN UP Concept Design Award 2021</b>, KAID<ul style="list-style-type: none"><li>▫ BEST 100 in Living Goods Design Dec 2021</li></ul></li><li>▪ <b>Busan-Ulsan-KyungPook Startup Day Innovation Ventures League</b> Samsung Electronics KyungPook, Ulsan, Busan Creative Econ. &amp; Innov. Center<ul style="list-style-type: none"><li>▫ Excellence Prize at Futures' League Dec 2021</li></ul></li><li>▪ <b>Challenge K-Startup Expo : Collegiate Competition</b> Ministry of SMEs and Startups, Korean Institute of Startup &amp; Entrepreneurship Developement<ul style="list-style-type: none"><li>▫ Top 10, Offline Exhibition Oct 2021</li><li>▫ Top 50, Offline Exhibition Aug 2019</li></ul></li><li>▪ <b>Social Challenge alpha 7</b>, OhMyCompany, BSS, LISCC<ul style="list-style-type: none"><li>▫ Challenge Award, Crowd Funding (Funded 1,424,000 KRW) Sep 2020 – Dec 2020</li></ul></li><li>▪ <b>Ulsan Collegiate Startup Excellent Idea Contest</b> Ulsan Creative Econ. &amp; Innov. Center<ul style="list-style-type: none"><li>▫ Winner : Grand Prize Nov 2020</li></ul></li><li>▪ <b>Institute of Science &amp; Technology Startups Competition</b> KAIST, GIST, DGIST, UNIST, POSTECH<ul style="list-style-type: none"><li>▫ Representative of UNIST (Top 2 at UNIST) Dec 2020</li><li>▫ Representative of UNIST (Top 3 at UNIST) Nov 2019</li></ul></li></ul>		
<b>FUNDINGS &amp; SUPPORT PROGRAM</b>	<ul style="list-style-type: none"><li>▪ <b>DIDIMDOL First Step - Startup Growth Development Project</b>, Ministry of SMEs and Startups,<ul style="list-style-type: none"><li>▫ Recommended from Ulsan Creative Econ. &amp; Innov. Center Aug 2022 – Jul 2023</li></ul></li><li>▪ <b>Ulju Youth Startup Academy</b>, Ulsan Youth Startup Center Mar 2022 – Dec 2022</li><li>▪ <b>Pre-IBK Changgong @ UNIST</b>, UNIST, IBK Changgong Jul 2022 – Nov 2022</li><li>▪ <b>Private-Sector Open Start-up Revitalization Project</b>, Ulsan Creative Econ. &amp; Innov. Center May 2022 – Oct 2022</li><li>▪ <b>BUSAN BIGS Program</b>, Busan-si, KSD, KHUG, KOSPO, HF, KIBO, Busan PA, BNK Mar 2022 – Sep 2022</li><li>▪ <b>Innopolis Campus for Ulsan Collegiate</b>, UNIST, Innopolis Jun 2021 – Aug 2022</li><li>▪ <b>12th UEPA Startup Incubator</b>, Ulsan Youth Startup Center Mar 2021 – Dec 2021</li><li>▪ <b>SBC Youth Entrepreneurship Academy</b>, Korea SMEs and Startups Agency<ul style="list-style-type: none"><li>▫ Most Funded Startup Company (100,000,000 KRW)</li><li>▫ Excellent Completion at Pre-School</li></ul></li></ul>		

	<ul style="list-style-type: none"> <li>▫ 'Pre-School' Completion of Excellence &amp; Youth Startup Academy Nov 2020 – Nov 2021</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ <b>UNIST Unicorn Start-Up Support Program</b>, UNIST <ul style="list-style-type: none"> <li>▫ Funding (12,000,000 KRW)</li> <li>▫ Participated for Four Semesters</li> </ul> </li> </ul>	Sep 2019 – Feb 2021
	<ul style="list-style-type: none"> <li>▪ <b>KISED Pre-Startup Package (General Field)</b>, Korea Institute of Startup &amp; Entrepreneurship Development <ul style="list-style-type: none"> <li>▫ Most Funded (70,000,000 Won)</li> </ul> </li> </ul>	Apr 2020– Dec 2020
<b>ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ <b>Ulsan Knowledge-Technology Startup Center</b>, Ulsan Technopark</li> <li>▪ <b>Patent IP Training Education</b>, Intellectual Property Office</li> <li>▪ <b>K-Camp Busan</b>, Krypton</li> </ul>	Oct 2020 Jun 2020 – Dec 2020 Nov 2019 – May 2020
<b>MEDIAS</b>	<ul style="list-style-type: none"> <li>▪ <b>UNIST Startup OCONNECT wins at JAMES DYSON AWARD 2022</b>, UNIST Press, CHOSUN Ilbo, Segye Ilbo, Sisa-news, Newsis</li> <li>▪ <b>UNIST 2021 Innopolis Performance Presentation</b>, UNIST Press, UlsanDaily, ETNews</li> <li>▪ <b>UNIST UNISPARK for Young Entrepreneurs</b> UNIST Magazine 2021 Winter</li> <li>▪ <b>Southeast Venture Competition held by UNIST Lab Startup Innovation Group</b> The Korea Economy TV</li> <li>▪ <b>"New evolution of electrical outlets..." OneStep is released</b> The Korea Economic Daily</li> <li>▪ <b>"Make a 'National Outlet' which 'Connects' warmth to each other"</b> UNIST Magazine 2021 Spring</li> <li>▪ <b>"Doing businesses regardless of COVID-19" - Leap forward with technology</b> SBS, UBC</li> </ul>	Feb 2022 Feb 2022 Dec 2021 Dec 2021 Dec 2021 Feb 2021 Feb 2021
<b>PATENTS</b>	<ul style="list-style-type: none"> <li>▪ <b>Patent Registration</b></li> <li>▪ <b>Patent Application</b> <ul style="list-style-type: none"> <li>▫ <b>Design Registration Application</b>, H. J. Bang(2021)</li> </ul> </li> <li>▪ <b>International PCT Application</b></li> <li>▪ <b>Trademark Application</b></li> </ul>	