Jinheon Baek

Email: jinheon.baek@kaist.ac.kr **Homepage**: https://jinheonbaek.github.io **Google Scholar**: /JinheonBaek

RESEARCH INTEREST

My research interest lies in machine learning for language, knowledge, and their intersections at scale. Previous work includes modeling interconnected data structures (texts and graphs), and retrieving them to augment language models, while verifying and personalizing their outputs, for practical natural language applications.

EDUCATION

KAIST — Seoul, South Korea
Ph.D. in Artificial Intelligence — Mar 2022 – Present
M.S. in Artificial Intelligence — Mar 2020 – Feb 2022
 Thesis: Toward Accurate Learning of Graph Representations, GPA: 4.22/4.30

Korea University — Seoul, South Korea
B.S. in Computer Science and Engineering — Mar 2016 – Feb 2020
B.E. in Software Technology and Enterprise Program (Interdisciplinary Program)
 GPA: 4.40/4.50, GPA of Computer Science and Engineering: 4.48/4.50

EMPLOYMENT

Research Assistant, KAIST (Advisor: Prof. Sung Ju Hwang) — Jul 2019 - Present
- Conducting research primarily on machine learning for language, knowledge, and their intersections, especially on augmenting large language models with external knowledge to make their outputs more accurate.

Research Intern, Google DeepMind (Gemini) — Sep 2024 - Nov 2024
- Conducted research on in-context learning with many examples for frontier long context language models.

Research Intern, IBM Research — May 2024 - Aug 2024
- Conducted research on augmenting large language models for text to SQL with knowledge base construction.

Research Intern, Microsoft Research — Jun 2023 - Sep 2023
- Conducted research on augmenting large language models for personalization for search query suggestions.

Applied Scientist II Intern, Amazon (Alexa AI) — Aug 2022 - Nov 2022
- Conducted research on knowledge-augmented large language models with retrieval from knowledge graphs.

Chief Technology Officer (CTO), Jobshopper — Jul 2018 - Feb 2020
- Co-founded an education-technology startup for student careers, led a research & development group, exited the big-data-based university information platform (Majormap), and now only advising technical directions.

Undergrad. Research Assistant, Korea University (Advisor: Prof. Jaewoo Kang) — Mar 2018 - Jun 2019
- Conducted research on representing interconnected knowledge (food ingredients and academic majors) for their recommendations, and research on investigating the spatial reasoning ability of neural models.

Research Intern, Smart Data Research Group, ETRI — Jan 2019 - Feb 2019
- Researched an open data distribution platform with the international standard (DCAT), and utilized DevOps tools (Ansible, AWX, and Traefik) to manage nodes on a cloud, in a National AI Research Institute in Korea.

PUBLICATIONS

International Publications (∗: equal contribution; †: corresponding author)

[46] System Prompt Optimization with Meta-Learning
Yumin Choi*, Jinheon Baek*, and Sung Ju Hwang
arXiv preprint

[45] Paper2Code: Automating Code Generation from Scientific Papers in Machine Learning
Minju Seo, Jinheon Baek, Seongyun Lee, and Sung Ju Hwang
arXiv preprint

[44] UniversalRAG: Retrieval-Augmented Generation over Corpora of Diverse Modalities and Granularities
Woongyeong Yeo*, Kangsan Kim*, Soyeong Jeong, Jinheon Baek, and Sung Ju Hwang
arXiv preprint

[43] Sketch-of-Thought: Efficient LLM Reasoning with Adaptive Cognitive-Inspired Sketching
Simon A. Aytes, Jinheon Baek, and Sung Ju Hwang
Empirical Methods in Natural Language Processing (**EMNLP**), 2025

[42] Real-time Verification and Refinement of Language Model Text Generation
Joonho Ko, Jinheon Baek, and Sung Ju Hwang
Empirical Methods in Natural Language Processing (**EMNLP**), 2025

[41] Database-Augmented Query Representation for Information Retrieval
Soyeong Jeong, <u>Jinheon Baek</u>, Sukmin Cho, Sung Ju Hwang, and Jong C. Park
Empirical Methods in Natural Language Processing (**EMNLP**), 2025

[40] CaMMT: Benchmarking Culturally Aware Multimodal Machine Translation
Emilio Villa-Cueva, Sholpan Bolatzhanova, Diana Turmakhan, Kareem Elzeky, ...,
<u>Jinheon Baek</u>, ..., Soyeong Jeong, ..., Injy Hamed, Atnafu Lambebo Tonja, and Thamar Solorio
Findings of Empirical Methods in Natural Language Processing (**EMNLP Findings**), 2025

[39] Unified Multimodal Interleaved Document Representation for Retrieval
Jaewoo Lee*, Joonho Ko*, <u>Jinheon Baek*</u>, Soyeong Jeong, and Sung Ju Hwang
Vector Databases Workshop at ICML (**VecDB @ ICML**), 2025

[38] Efficient Long Context Language Model Retrieval with Compression
Minju Seo, <u>Jinheon Baek</u>, Seongyun Lee, and Sung Ju Hwang
Annual Meeting of the Association for Computational Linguistics (**ACL**), 2025

[37] Revisiting In-Context Learning with Long Context Language Models
<u>Jinheon Baek</u>, Sun Jae Lee, Prakhar Gupta, Geunseob (GS) Oh, Siddharth Dalmia, and Prateek Kolhar
Findings of the Association for Computational Linguistics (**ACL Findings**), 2025

[36] Knowledge Base Construction for Knowledge-Augmented Text-to-SQL
<u>Jinheon Baek</u>, Horst Samulowitz, Oktie Hassanzadeh,
Dharmashankar Subramanian, Sola Shirai, Alfio Gliozzo, and Debarun Bhattacharjya
Findings of the Association for Computational Linguistics (**ACL Findings**), 2025

[35] VideoRAG: Retrieval-Augmented Generation over Video Corpus
Soyeong Jeong*, Kangsan Kim*, <u>Jinheon Baek*</u>, and Sung Ju Hwang
Findings of the Association for Computational Linguistics (**ACL Findings**), 2025

[34] Towards Better Understanding of Program-of-Thought Reasoning in Cross-Lingual and Multilingual Environments
Patomporn Payoungkhamdee, Pume Tuchinda, <u>Jinheon Baek</u>, Samuel Cahyawijaya, Can Udomcharoenchaikit,
Potsawee Manakul, Peerat Limkonchotiwat, Ekapol Chuangsuwanich, and Sarana Nutanong
Findings of the Association for Computational Linguistics (**ACL Findings**), 2025

[33] ResearchAgent: Iterative Research Idea Generation over Scientific Literature with Large Language Models
<u>Jinheon Baek</u>, Sujay Kumar Jauhar, Silviu Cucerzan, and Sung Ju Hwang
Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (**NAACL**), 2025 **(Oral)**

[32] The BiGGen Bench: A Principled Benchmark for Fine-grained Evaluation of Language Models with Language Models
Seungone Kim, Juyoung Suk, Ji Yong Cho, Shayne Longpre, Chaeeun Kim, Dongkeun Yoon, Guijin Son, Yejin
Cho, Sheikh Shafayat, <u>Jinheon Baek</u>, ..., Graham Neubig, Moontae Lee, Kyungjae Lee, and Minjoon Seo
Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (**NAACL**), 2025 **(Best Paper)**

[31] CVQA: Culturally-diverse Multilingual Visual Question Answering Benchmark
David Romero, Chenyang Lyu, Haryo Akbarianto Wibowo, Teresa Lynn, Injy Hamed,
Aditya Nanda Kishore, ..., <u>Jinheon Baek</u>, ..., Soyeong Jeong, ..., Thamar Solorio, and Alham Fikri Aji
Conference on Neural Information Processing Systems (**NeurIPS**), 2024 **(Oral)**

[30] Retrieval-Augmented Data Augmentation for Low-Resource Domain Tasks
Minju Seo*, <u>Jinheon Baek*</u>, James Thorne, and Sung Ju Hwang
Adaptive Foundation Models Workshop at NeurIPS (**AFM @ NeurIPS**), 2024

[29] An Empirical Study of Multilingual Reasoning Distillation for Question Answering
Patomporn Payoungkhamdee, Peerat Limkonchotiwat, <u>Jinheon Baek</u>,
Potsawee Manakul, Can Udomcharoenchaikit, Ekapol Chuangsuwanich, and Sarana Nutanong
Empirical Methods in Natural Language Processing (**EMNLP**), 2024

[28] Rethinking Code Refinement: Learning to Judge Code Efficiency
Minju Seo, <u>Jinheon Baek</u>, and Sung Ju Hwang
Findings of Empirical Methods in Natural Language Processing (**EMNLP Findings**), 2024

[27] Adaptive-RAG: Learning to Adapt Retrieval-Augmented Large Language Models through Question Complexity
Soyeong Jeong, <u>Jinheon Baek</u>, Sukmin Cho, Sung Ju Hwang, and Jong C. Park
Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL**), 2024

[26] Knowledge-Augmented Large Language Models for Personalized Contextual Query Suggestion
Jinheon Baek, Nirupama Chandrasekaran, Silviu Cucerzan, Allen Herring, and Sujay Kumar Jauhar
The Web Conference (**WWW**), 2024

[25] Knowledge-Augmented Language Model Verification
Jinheon Baek, Soyeong Jeong, Minki Kang, Jong C. Park, and Sung Ju Hwang
Empirical Methods in Natural Language Processing (**EMNLP**), 2023

[24] Test-Time Self-Adaptive Small Language Models for Question Answering
Soyeong Jeong, Jinheon Baek, Sukmin Cho, Sung Ju Hwang, and Jong C. Park
Findings of Empirical Methods in Natural Language Processing (**EMNLP Findings**), 2023

[23] Knowledge-Augmented Reasoning Distillation for Small Language Models in Knowledge-Intensive Tasks
Minki Kang, Seanie Lee, Jinheon Baek, Kenji Kawaguchi, and Sung Ju Hwang
Conference on Neural Information Processing Systems (**NeurIPS**), 2023

[22] Direct Fact Retrieval from Knowledge Graphs without Entity Linking
Jinheon Baek[†], Alham Fikri Aji, Jens Lehmann, and Sung Ju Hwang
Annual Meeting of the Association for Computational Linguistics (**ACL**), 2023

[21] Phrase Retrieval for Open-Domain Conversational Question Answering
with Conversational Dependency Modeling via Contrastive Learning
Soyeong Jeong, Jinheon Baek, Sung Ju Hwang, and Jong C. Park
Findings of the Association for Computational Linguistics (**ACL Findings**), 2023

[20] Knowledge-Augmented Language Model Prompting for Zero-Shot Knowledge Graph Question Answering
Jinheon Baek[†], Alham Fikri Aji, and Amir Saffari
Natural Language Reasoning and Structured Explanations Workshop at ACL (**NLRSE @ ACL**), 2023 **(Best Paper)**
Matching from Unstructured and Structured Data Workshop at ACL (**MATCHING @ ACL**), 2023 **(Oral)**

[19] Personalized Subgraph Federated Learning
Jinheon Baek*, Wonyong Jeong*, Jiongdao Jin, Jaehong Yoon, and Sung Ju Hwang
International Conference on Machine Learning (**ICML**), 2023

[18] Realistic Conversational Question Answering with Answer Selection
based on Calibrated Confidence and Uncertainty Measurement
Soyeong Jeong, Jinheon Baek, Sung Ju Hwang, and Jong C. Park
Conference of the European Chapter of the Association for Computational Linguistics (**EACL**), 2023

[17] Graph Self-supervised Learning with Accurate Discrepancy Learning
Dongki Kim*, Jinheon Baek*, and Sung Ju Hwang
Conference on Neural Information Processing Systems (**NeurIPS**), 2022

[16] Object Detection in Aerial Images with Uncertainty-Aware Graph Network
Jongha Kim, Jinheon Baek, and Sung Ju Hwang
Visual Object-oriented Learning meets Interaction Workshop at ECCV (**VOLI @ ECCV**), 2022

[15] Knowledge Graph-Augmented Language Models for Knowledge-Grounded Dialogue Generation
Minki Kang*, Jin Myung Kwak*, Jinheon Baek*, and Sung Ju Hwang
Knowledge Retrieval and Language Models Workshop at ICML (**KRLM @ ICML**), 2022

[14] KALA: Knowledge-Augmented Language Model Adaptation
Minki Kang*, Jinheon Baek*, and Sung Ju Hwang
Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL**), 2022 **(Oral)**

[13] Augmenting Document Representations for Dense Retrieval with Interpolation and Perturbation
Soyeong Jeong, Jinheon Baek, Sukmin Cho, Sung Ju Hwang, and Jong C. Park
Annual Meeting of the Association for Computational Linguistics (**ACL**), 2022 **(Oral)**

[12] Edge Representation Learning with Hypergraphs
Jaehyeong Jo*, Jinheon Baek*, Seul Lee*, Dongki Kim, Minki Kang, and Sung Ju Hwang
Conference on Neural Information Processing Systems (**NeurIPS**), 2021

[11] Task-Adaptive Neural Network Retrieval with Meta-Contrastive Learning
Wonyong Jeong*, Hayeon Lee*, Geon Park*, Eunyoung Hyung, Jinheon Baek, and Sung Ju Hwang
Conference on Neural Information Processing Systems (**NeurIPS**), 2021 **(Spotlight)**

[10] Unsupervised Document Expansion for Information Retrieval with Stochastic Text Generation
Soyeong Jeong, <u>Jinheon Baek</u>, ChaeHun Park, and Jong C. Park
Scholarly Document Processing Workshop at NAACL **(SDP @ NAACL)**, 2021 **(Oral)**

[9] Accurate Learning of Graph Representations with Graph Multiset Pooling
<u>Jinheon Baek</u>*, Minki Kang*, and Sung Ju Hwang
International Conference on Learning Representations **(ICLR)**, 2021

[8] Exploring The Spatial Reasoning Ability of Neural Models in Human IQ Tests
Hyunjae Kim*, Yookyung Koh*, <u>Jinheon Baek</u>, and Jaewoo Kang
Neural Networks, 2021

[7] Learning to Extrapolate Knowledge: Transductive Few-shot Out-of-Graph Link Prediction
<u>Jinheon Baek</u>, Dong Bok Lee, and Sung Ju Hwang
Conference on Neural Information Processing Systems **(NeurIPS)**, 2020

Domestic Publications, mostly written in Korean

[6] Artificial Intelligence-Based High School Course and University Major
Recommendation System for Course-Related Career Exploration
<u>Jinheon Baek</u>, Hayeon Kim, and Kiwon Kwon
KIPS Transactions on Software and Data Engineering (KTSDE), 2021

[5] Graph Representation Learning with Attention-based Set Pooling
<u>Jinheon Baek</u>, Minki Kang, and Sung Ju Hwang
Conference of Korean Artificial Intelligence Association (CKAIA), 2020 **(Best Paper)**

[4] Embedding Academic Majors and Lectures for Analyzing Departments in University
<u>Jinheon Baek</u>, Gwanghoon Jang, Soyeong Jeong, Donghyeon Park, Kiwon Kwon, and Jaewoo Kang
Korea Computer Congress (KCC), 2019 **(Oral)**

[3] Embedding Food Ingredients Based on Chemical Combination in Dense Vector Space
Donghyeon Park, Yonggyu Park, Buru Chang, <u>Jinheon Baek</u>, and Jaewoo Kang
Korea Computer Congress (KCC), 2018 **(Best Paper)**

[2] Multimodal Approach for Blocking Obscene and Violent Contents
<u>Jinheon Baek</u>, Dakyeong Lee, Chaeyeon Hong, and Byeongtae Ahn
Journal of Convergence for Information Technology (JCIT), 7(6), 2017

Thesis

[1] Toward Accurate Learning of Graph Representations
<u>Jinheon Baek</u>
Master's Thesis, KAIST, 2022

PATENTS

[8] Automated Text to Query with Knowledge Base Generation
<u>Jinheon Baek</u>, Horst Samulowitz, Oktie Hassanzadeh,
Dharmashankar Subramanian, Sola Shirai, and Alfio Gliozzo
In preparation

[7] Response Generation Device Based on Retrieval Augmentation,
Method of Learning Artificial Neural Network for Response Generation
Sung Ju Hwang, Soyeong Jeong, Kangsan Kim, and <u>Jinheon Baek</u>
Korean patent number: 10-2025-0093874, filed on Jul 11, 2025

[6] Apparatus and Method for Providing Interactive Question and Answer Service
Jong C. Park, Soyeong Jeong, <u>Jinheon Baek</u>, Sung Ju Hwang, and Sukmin Cho
Korean patent number: 10-2024-0053617, filed on Apr 22, 2024

[5] Contextualization of Generative Language Models Based on Entity Resource Identifiers
<u>Jinheon Baek</u>, Sujay Kumar Jauhar, Silviu Cucerzan, Nirupama Chandrasekaran, and Allen Herring
USSN: 18/529,910, filed on Dec 05, 2023

[4] Entity-Based Personalization of Generative Language Models
<u>Jinheon Baek</u>, Sujay Kumar Jauhar, Silviu Cucerzan, Nirupama Chandrasekaran, and Allen Herring
USSN: 63/545,909, filed on Nov 03, 2023

[3] Electronic Apparatus and Method for Controlling Thereof
Sung Ju Hwang, <u>Jinheon Baek</u>, Wonyong Jeong, Hyeonuk Kim, Jiongdao Jin, and Jaehong Yoon
Korean patent number: 10-2022-0175165, filed on Dec 14, 2022

[2] Method for Building an Artificial Intelligence based Research Topics Database
Kiwon Kwon, and <u>Jinheon Baek</u>
Korean patent number: 10-2021-0017765, filed on Feb 08, 2021, and registered on Apr 19, 2022

[1] Method for Consulting on Exploration Activities based on Target Departments and Curriculum Achievement Standards
Kiwon Kwon, and <u>Jinheon Baek</u>
Korean patent number: 10-2021-0017764, filed on Feb 08, 2021, and registered on Jun 17, 2022

HONORS AND AWARDS		
Awarded the Presidential Science Scholarship for Graduate Study	2024-2026
Selected as One of the Great Reviewers within ACL ARR 2024–2025 Cycles	2024-2025
Received the Best Paper Award at NAACL 2025	2025
Received the 3rd Place Poster Presentation Award at Citadel	Citadel Securities PhD Summit	2025
Awarded the Travel Grant from KAIST-Google Partnership Program for WWW 2024	2024
Received the Best Poster Presentation Award at Samsung AI Forum 2023	2023
Received the Best Paper Award at NLRSE Workshop in ACL 2023	2023
Awarded the ICML Travel Grant for ICML 2023	2023
Awarded the Google Travel Grant for NeurIPS 2022	2022
Selected as One of the Top Reviewers (Top 10%) for NeurIPS 2022	2022
Selected as One of the Highlighted Reviewers (Top 10%) for ICLR 2022	2022
Selected as One of the Best Reviewers (Top 10%) for ICML 2021	2021
Received the Best Paper Award at CKAIA 2020	2020
Awarded the Samsung Dream Scholarship	2016-2020
Received the First Prize in the Graduation Project Competition at Korea University	2019
Received the Academic Excellence Award (highest GPA) at Korea University	2019
Received the Second Prize for Excellence in the Microsoft Student Partners Activities	2018
Nominated as the Representative of Korean for Excellence in Microsoft Student Partners Activities	2017

ACADEMIC SERVICES		
Reviewer of **NeurIPS** (Conference on Neural Information Processing Systems)	2021-2025
Reviewer of **ICML** (International Conference on Machine Learning)	2021-2025
Reviewer of **ICLR** (International Conference on Learning Representations)	2022-2025
Reviewer of **ACL ARR** (Association for Computational Linguistics Rolling Review)	2023-2025
Reviewer of **WWW** (The Web Conference)	2024-2025
Reviewer of **AAAI** (The Association for the Advancement of Artificial Intelligence)	2025
Reviewer of **TMLR** (Transactions on Machine Learning Research)	2022-2025
Reviewer of **COLM** (Conference on Language Modeling)	2024-2025
Reviewer of **LoG** (Learning on Graphs Conference)	2022-2025
Reviewer of **EACL** (Conference of the European Chapter of the Association for Computational Linguistics)	2023
Reviewer of **ACM Computing Surveys**	2025
Reviewer of **Pattern Recognition**	2025
Reviewer of **Expert Systems with Applications**	2025
Reviewer of **Internet of Things** (IEEE Internet of Things Journal)	2024
Reviewer of **TKDE** (IEEE Transactions on Knowledge and Data Engineering)	2023-2024
Reviewer of **SMCA** (IEEE Transactions on Systems, Man and Cybernetics: Systems)	2024
Reviewer of **T-IFS** (IEEE Transactions on Information Forensics & Security)	2024
Reviewer of **TPAMI** (IEEE Transactions on Pattern Analysis and Machine Intelligence)	2023
Reviewer of **TNNLS** (IEEE Transactions on Neural Networks and Learning Systems)	2023
Reviewer of **TETCI** (IEEE Transactions on Emerging Topics in Computational Intelligence)	2023
Reviewer of **Big Data Research**	2023
Reviewer of **AISD** (AI and Scientific Discovery: Directions and Opportunities Workshop)	2025
Reviewer of **NLRSE** (Natural Language Reasoning and Structured Explanations Workshop)	2023-2024

VOLUNTEERING EXPERIENCE

Oxford COVID-19 Government Response Tracker (OxCGRT)   Jan 2022 - Mar 2023
- Collected systematic data on policy measures that governments took to tackle COVID-19, aiding decision-makers and citizens in understanding governmental responses over 180 countries. Research papers: [a, b].

WoonWha - Education Volunteer Club, Korea University   Jul 2016 - Jul 2017
- Volunteered for 10 middle school students vulnerable to education twice a week, about 300 hours in total.

5th Volunteering Program, Samsung Dream Scholarship Foundation   Jan 2017
- Volunteered for children in Cambodia by teaching students and exchanging cultures for two weeks.

Empowering (AI) Research with AI: Assisting the End-to-End Workflow from Ideation to Execution
     Microsoft Research   Jul 2025

Augmenting Language Models with External Knowledge
     LG TECH CONFERENCE   Apr 2025
     Citadel | Citadel Securities PhD Summit   Mar 2025

ResearchAgent: Iterative Research Idea Generation over Scientific Literature with LLMs
     Korea AI Frontier Lab   Mar 2025

Knowledge-Augmented (Large) Language Models
     Vidyasirimedhi Institute of Science and Technology   May 2024
     ETRI   Oct 2023
     Microsoft Research   Aug 2023

Knowledge-Augmented Language Model Verification
     Korea Software Congress (KSC)   Dec 2023
     Samsung AI Forum   Nov 2023

Direct Fact Retrieval from Knowledge Graphs & Personalized Subgraph Federated Learning
     Korea Software Congress (KSC)   Dec 2023
     POSTECH ML Lab   Jul 2023

Representation Learning on Graphs with Their Real-World Applications
     Modulabs   Jul 2022

Edge Representation Learning with Hypergraphs
     KAIST AI Workshop   Jan 2022

Accurate Learning of Graph Representations with Graph Multiset Pooling
     KAIST AI Workshop   Jan 2022
     ICLR Social - ML in Korea   May 2021

Introduction of Graph Neural Networks
     Modulabs   Jan 2022

Special Talk in Artificial Intelligence as an Alumnus
     Korea University   Aug 2021

Learning to Extrapolate Knowledge: Transductive Few-shot Out-of-Graph Link Prediction
     Korean Conference on Computer Vision (KCCV)   Aug 2021
     NeurIPS Social - ML in Korea   Dec 2020

Basic Algorithms of Machine Learning and Deep Learning with Python Code Challenges
     Microsoft Coding Education Volunteer Group Seminar   Jul 2018
     Microsoft Student Partner Newcomer Tech Seminar   May 2018

IaaS (Infrastructure as a Service) in Microsoft Azure
     Microsoft Student Partner Newcomer Tech Seminar   Apr 2018

Phishing Website Detection with Microsoft Azure Machine Learning Studio
     KUSISWALL: Joint Seminar of Korea, Sookmyung and Hanyang Universities   Feb 2018

Basic Algorithms of Machine Learning with Azure Machine Learning Studio
     Microsoft Student Partner Evangelism   Nov 2017, Nov 2016

Azure Cognitive Services with Serverless Cloud Computing using JavaScript and Python
     Microsoft Student Partner Evangelism   Nov 2017

Windows Hello: Microsoft Face Recognition System in Windows 10
     Microsoft Student Partner Inner Tech Seminar   Oct 2016

Lead & Representative of Korea, Microsoft Student Partner   Jul 2016 - Jul 2020
- As a leader, promoted Microsoft products, recruited members, planned programs, and reviewed projects.
- As a representative of Korea on a global summit program, invited to Microsoft Build in 2017 which is the biggest annual conference held by Microsoft, and conducted a role as a technical ambassador.

Chairman, Inc0gnito Hacking Conference   Mar 2018 - Feb 2019
- Organized the information security conference in Korea held by undergraduate students over 10 universities, which covers techs, news, and trends on information security areas.

8th Trainee, SW Maestro   Jul 2017 - Dec 2017
- Researched and developed systems that automatically block obscene and violent movie content with machine learning, within the SW Maestro program that aims to train talented students on software in Korea.

Skills   Languages: Korean (mother tongue), English (fluent)
Programming (Coding): Python, JavaScript, Java, and C