

Daeheon Jeong

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INTERESTS	Human-AI Interaction, Visualization, Multi-Modal LLM, Accessibility.	
EDUCATION	Sogang University , Seodaemun-gu, Seoul, South Korea	Mar 2020 – Feb 2024
	<ul style="list-style-type: none">▪ B.A. in Economics, B.Sc. in Software Convergence<ul style="list-style-type: none">• Cumulative GPA: 3.93 / 4.0	
	Harvard University , Cambridge, Massachusetts, USA	Jun 2022 – Aug 2022
	<ul style="list-style-type: none">▪ Harvard Summer School<ul style="list-style-type: none">• GPA: 4.0 / 4.0	
RESEARCH EXPERIENCE	Naver Labs , Naver Corporation Undergraduate Intern	Jun 2023 – Present
Advisors: Dr. Giseop Kim and Dr. Sunwook Choi Focus: Data Visualization, Real-Time Communication, Human-Robot Interaction		
<ul style="list-style-type: none">▪ Project: Autonomous Vehicle Positional Awareness Visualization <i>Modulized GIS data visualization via ROS. Real-time point-cloud rendering using WebRTC.</i>▪ Project: Situational Awareness Augmentation on Multi-Passenger Scenarios <i>Conducted investigative research aimed at augmenting situational awareness in multi-passenger settings.</i>		
Lifestyle Media Group , Art & Technology, Sogang University Student Researcher		Jan 2022 – Present
Advisor: Prof. Yongsoon Choi Focus: Conversational Agent, Accessibility, Human-AI Interaction.		
<ul style="list-style-type: none">▪ Project: Pedagogic Conversational Agent Design for Museum Learning <i>Led team of five students on design research of conversational agent as an audio guide in museums.</i>▪ Project: Interactive Dial-Based Reading Interface for BLV Users <i>Conducted design study on a dial-based reading interface using BLDC motors.</i>		
Semantic Graph , Graduate School of Economics, Sogang University Research Assistant		Nov 2021 – Jun 2023
Advisor: Prof. Moonki Hwang Focus: Graph Neural Network, Language Model, Data Visualization		
<ul style="list-style-type: none">▪ Project: Graph-Based Educational Content Recommendation for K-12 (In Partnership with Visang Education) <i>Assisted development of graph convolution network for a content recommendation based on behavioral data.</i>		
PUBLICATIONS	CONFERENCE PAPERS	
<p>[1] <u>D. Jeong</u>, F. Reuting, and H. Jeong, “Auditory Map Generation Using Boundary Detection in a Web Environment.” <i>Proceedings of HCI Korea 2022</i>, pp. 869–871, Feb 2022.</p> <p>[2] <u>D. Jeong</u>, Y. Kim, J. Park, and M. Cho “Spatial Screen Reader Using Touch Interface for Visually Impaired” <i>Proceeding, Korea Software Congress 2022</i>, pp. 1798–1800, Dec 2022.</p>		
WORK IN PROGRESS		
<p>[3] <u>D. Jeong</u>, S. Jeon, J. Min, C. Cho, D. Lim, and Y. Choi, “VirtualPicasso: A Conversational Audio Guide that Collaborates in Learning Artwork as a Characterized Artist”, <i>Submitted to CHI 2024</i></p>		
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none">▪ Student Research Funding, Center for Convergence Education Funding Grant for Independent Undergraduate Research [\$3,300].	Sep 2022 – Jun 2023
	<ul style="list-style-type: none">▪ Award Winner, Sogang Convergence Technology Competition Sogang University, Ministry of Education, and National Research Funding<ul style="list-style-type: none">• Topic: Conversational Museum Audio Guide (1st place).• Topic: Assistive Touch Screen Interface for BLV users (3rd place).	Dec 2022, Jun 2023
<ul style="list-style-type: none">▪ Alumni Scholarship, Sogang Alumni Foundation Based on both merit and need.		Jun 2021, Jun 2022, Dec 2022

	<ul style="list-style-type: none"> ▪ Top School Challenger, DB Kim Jun Ki Cultural Foundation Scholarship Grant for Harvard Summer School [\$16,250]. Jun 2022 – Aug 2022 ▪ Creative Award, HCI Korea 2022 Best Paper Nominee, Capstone Project. Feb 2022 ▪ Dean's List, College of Economics For attaining a semester GPA of top 3% in college. Jun 2020, Dec 2021
WORK EXPERIENCE	<p>Naver Financial, Naver Corporation Jan 2023 – Mar 2023</p> <p>Software Engineer Intern</p> <ul style="list-style-type: none"> ▪ Engaged in migrating legacy repository to new environment operating through server-side rendering. ▪ Participated in ground-up service deploying workflow, cooperating with multiple stakeholders.
OTHER PROJECTS	<p>Project Lead, BLV User Studies, Independent Mar 2023 – Present</p> <ul style="list-style-type: none"> ▪ Participated in weekly user experience study sessions with 3 BLV team members. ▪ Conducted an investigation into recurring challenges encountered by BLV users on daily life. <p>Project Lead, Capstone design II. College of Engineering. Sogang University Sep 2022 – Dec 2022</p> <p>Advisor: Prof. Youngmin Chung</p> <ul style="list-style-type: none"> ▪ Led team of four on the development of a touch-based web navigation assistant via UI component classification. ▪ Published the paper and made poster presentation via the Korea Conference on Software Engineering. <p>Project Lead, UI/UX design, Art & Technology, Sogang University Sep 2021 – Dec 2021</p> <p>Advisor: Prof. Yongsoo Choi</p> <ul style="list-style-type: none"> ▪ Led a team of three with a project about translating graphical information to auditory information via boundary detection. ▪ Published the paper and made poster presentation via HCI Korea Conference.
ACTIVITIES	<p>Swimming Club, Sogang University Sep 2022 – Present</p> <p>Member</p> <p>Healthier, Sinchon Student Start-Up Community Feb 2022 – Aug 2022</p> <p>Founding Member</p> <ul style="list-style-type: none"> ▪ Healthier is a startup focused on providing preemptive diagnosis prior to the visit to doctor's office. (In partnership with Yonsei Severance Hospital) ▪ Developed a interactive 3D interface to help the users specify their symptoms visually. <p>Student Society of Economic Studies (Moseori), Sogang University. Sep 2020 – Sep 2021</p> <p>Member</p> <ul style="list-style-type: none"> ▪ Participated on group review and presentation on academic papers from the field of economics (JEP, AER).
SKILLS	<p>LANGUAGE</p> <ul style="list-style-type: none"> ▪ Korean: Native language. ▪ English: Fluent. <p>PROGRAMMING</p> <ul style="list-style-type: none"> ▪ Language: C/C++, Javascript, Python ▪ Web Development: Typescript, React.js, Three.js, D3.js, WebGL, WebRTC, WASM ▪ Other Framework: Pytorch, Tensorflow, ROS, GLSL, \LaTeX <p>DESIGN</p> <ul style="list-style-type: none"> ▪ Interface: Figma, Photoshop, Illustrator ▪ Miscellaneous: Davinci Resolve, Fusion 360, After Effect

[CV compiled on 2023-10-06]