

Badraa Bat-Ulzii

CONTACT	Undergraduate student Computer Science and Engineering, UNIST <i>Email: bbadraa99@unist.ac.kr</i>	50 UNIST-gil, Eonyang-eup Ulsan 44919, Republic of Korea
EDUCATION	Ulsan National Institute of Science and Technology (UNIST) Undergraduate student in Computer Science	Ulsan, Korea SEP. 2020 – Present
HONORS AND AWARDS	Best Paper Bronze Medal Brain to Society program (BTS) 2022 Full Tuition and Scholarship recipient - 4 years UNIST Gap Year Internship Program Gerhub Mongolian Young Scholar Award Zorig Foundation Full tuition scholarship - 1 year LeTourneau University, USA	2022 2020 2020 2019 2019
PROGRAMMING LANGUAGES	Python, C++, Java JavaScript, HTML, CSS,	
FRAMEWORKS AND LIBRARIES	React, Next.js, Spring Boot, Docker, jQuery, MySQL MongoDB, Git, Maven,	
PERSONAL PROJECTS	Portfolio Website v.1 Personal <ul style="list-style-type: none">• Crafted my portfolio website v.1 using Next.js, Tailwind CSS, and TypeScript for a sleek, responsive, and type-safe experience.• Engineered a modern and clean user interface, ensuring seamless navigation and dynamic content presentation. Gather Co-founder <ul style="list-style-type: none">• Initiated a web application designed for finding study or hangout “buddies” to promote socializing on campus at UNIST• Implemented the front-end using React and backend using Spring Boot framework• Developed a database using MongoDB compass and tested the CRUD operations and enabled the search algorithm	Ulsan, South Korea APR. 2024 Ulsan, South Korea FEB. 2023 – June. 2023
INTERNSHIP EXPERIENCE	Perception Learning Lab, UNIST Android Studio Developer <ul style="list-style-type: none">• Extended backend features using Kotlin, seamlessly integrating them into the existing Eye Training application• Enhanced database functionality by integrating MongoDB to support new features, ensuring efficient data management• Conducted thorough testing and debugging of the new features to ensure compatibility and stability across various devices Rubick AI Software Engineering Intern <ul style="list-style-type: none">• Developed a landing page from scratch using Next.js, Tailwind CSS, and Typescript for the CarCare project (https://carcare.mn/)• Incorporated fully responsive design for small to extra large devices• Integrated interactive features and optimized the user experience using React Framer Motion Digital Solutions Software Engineering Intern <ul style="list-style-type: none">• Collaborated designing the “Guyuk” project website using HTML and CSS (https://guyuk.mn/)• Performed Metaverse market analysis and helped finding the niche that is suitable in Mongolia	Ulsan, South Korea MAR. 2024 - Present Ulaanbaatar, Mongolia JAN. - FEB. 2024 Ulaanbaatar, Mongolia JAN. - FEB. 2023

RESEARCH
EXPERIENCE

Tactile Interaction (TACT) Lab, UNIST

Ulsan, Korea

Research Intern

Mentors: Prof. Jaeyeon Lee (UNIST), Prof. Seongkook Heo (UVA)

MAR. - NOV. 2023

- Co-created dynamic haptic system
- Developed experimental software and virtual context using Python
- Designed qualitative and quantitative haptic research experiments on user perception

Brain To Society (BTS) program, UNIST

Ulsan, Korea

AI Research Developer

MAR. – DEC. 2022

Mentors: Prof. Jeongseob Kim (UNIST)

- Researched Housing Price Prediction using Machine Learning in Ulsan, Korea
- Constructed and Evaluated 11 Machine Learning Regression models including XGBoost, Catboost, Light GBM, etc
- Interpreted the hidden layers of the model using Shapley Additive explanations method

LEADERSHIP AND
ACTIVITIES

UNIST International Student Organization (UIISO)

Ulsan, Korea

Vice President

APR. 2022 – Mar. 2023

- Led a team of 12 students to organize over 15 events and activities for over 200 international students
- Facilitated clear communication with stakeholders, including the Center of International Affairs (CIA), international students, and other student organizations on campus
- Fostered a welcoming and inclusive community for international students at UNIST

MarbleUs Environmental Club

Ulsan, Korea

Member

SEP. 2021 – Mar. 2022

- Promoted environmentally friendly living through YouTube videos (@marbleus6456)
- Participated in mothly plogging, a combination of jogging and picking up litter
- Placed designated space for ice-pack waste at campus for recycling