Badraa Bat-Ulzii

Undergraduate student **CONTACT**

Computer Science and Engineering, UNIST 50 UNIST-gil, Eonyang-eup Email: bbadraa99@unist.ac.kr Ulsan 44919, Republic of Korea

Website: https://badraabatulzii.com/

Ulsan National Institute of Science and Technology (UNIST) **EDUCATION**

Ulsan, Korea

Undergraduate student in Computer Science

SEP. 2020 - Present

HONORS AND AWARDS

Best Paper Bronze Medal Brain to Society program (BTS) 2022 2022 Full Tuition and Scholarship recipient - 4 years UNIST 2020 Gap Year Internship Program Gerhub 2020 Mongolian Young Scholar Award Zorig Foundation 2019 Full tuition scholarship - 1 year LeTourneau University, USA 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

Ulsan, South Korea

APR. 2024

Personal

• 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.
- Ulsan, South Korea Gather

Co-founder FEB. 2023 - June. 2023

- 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

INTERNSHIP **EXPERIENCE**

Perception Learning Lab, UNIST

Ulsan, South Korea

Android Developer

MAR. 2024 - Present

- · Extend backend features using Kotlin, seamlessly integrating them into the existing Eye Training application
- Enhance database functionality by integrating MongoDB to support new features, ensuring efficient data management
- · Conduct thorough testing and debugging of the new features to ensure compatibility and stability across various devices

Rubick AI Ulaanbaatar, Mongolia

Software Engineering Intern

JAN. - FEB. 2024 • 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

Ulaanbaatar, Mongolia JAN. - FEB. 2023

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

BADRAA BAT-ULZII 1 Last update: April 22, 2024 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

Mantana Darf Janaara

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 (UISO)

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

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