

Seunghyun Park

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Education

Korea University

B.S. in Computer Science

- School of Interdisciplinary Studies
- GPA: 3.98/4.5

Seoul, Korea

Mar 2021 - Current

Research Experience

Korea University

Undergraduate Research Intern

- Improving the learning algorithm of PL4XGL: A Programming Language Approach to Explainable Graph Learning
- Applying Neural Networks to enhance accuracy with GDL
- Advisor:** Hakjoo Oh

Seoul, Korea

Nov 2022 - Aug 2024

University Projects

Development of a Webpage for Curriculum Flowcharts

Korea University Univ-College

- Collected and standardized data for curriculum flowcharts of 43 departments available for undergraduate students.
- Designed and developed a responsive webpage visualizing curriculum flowcharts using graphs.
- Technical Skills:** React, TypeScript, React-Flow, Python, Pandas, CSS Modules, Webpack.
- Soft Skills:** Data Standardization, Web Development.

Nov 2024 - Dec 2024

Attempt to measure AST in Rust

AAA705: Software Testing and Quality Assurance personal project

- Conducted coverage checking and mutation testing in TypeScript.
- Extended the same approach to Rust Abstract Syntax Trees (ASTs).
- Technical Skills:** Rust, TypeScript, Testing Frameworks.

May 2024 - June 2024

Wireless Few-shot IDS via Weakly-supervised Learning

AIKU : AI club in Korea University

- Developed an autoencoder model to classify malicious network packets.
- Utilized few-shot learning and weakly-supervised learning techniques.
- Technical Skills:** Python, Autoencoders, Few-shot Learning, Network Security.
- Soft Skills:** Research, Mathematical Modeling.

Apr 2024 - Jul 2024

A Computer Vision Project for Generating Pokémon Images with Silhouettes

AIKU : AI club in Korea University

- Designed a UNet-based model to generate Pokémon images from silhouettes.
- Explored generative modeling techniques to refine output quality.
- Technical Skills:** Python, TensorFlow/Keras, UNet, Image Processing.

Sept 2023 - Dec 2023

Whisper with Korean Fine-tuning and Decoding Strategy Change

COSE461: NLP team project

- Fine-tuned OpenAI's Whisper model on multilingual datasets to enhance Korean speech recognition.
- Proposed a decoding strategy to reduce real-world recognition errors.
- Leveraged additional Korean language data to improve model performance.
- Technical Skills:** Python, Whisper API, Fine-tuning, Speech Processing.

May 2023 - June 2023

Technical Skills

Programming Python, C/C++, Rust, OCaml, TypeScript, HTML/CSS

Achievements

2024 **3rd prize**, AngelHack, Social Responsibility Track

Seoul