Seo, Jun Pyo

Undergraduate Student

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Github **Tech blog**

01 SUMMARY

I am passionate about optimization and its applications in various fields, including machine learning and AI. My interest lies in defining well-structured objective functions to tackle complex problems effectively. Specifically, I am intrigued by delivery optimization, portfolio optimization using financial time series analysis, and job scheduling in data centers. My interests involve utilizing various optimization techniques, such as linear programming, genetic algorithms, and gradient-based methods, while exploring the integration of machine learning and AI to enhance decision-making capabilities.

02 Education

Seoul National University(Electronic And Electrical Engineering)
Gwanak-gu, Seoul, Republic Of Korea | A Bachelor of Engineering 2017/03 ~ Current
* Expected to graduate on 2024.02

Daegu Science High School
Suseong-gu, Daegu, Republic Of Korea | High School Diploma 2014/03 ~ 2017/02

03 EXPERIENCE

2023.06 ~ 2023.08

Seminar for financial analysis
Quantit X Seoul National University

- Participated in a team project that required us to utilize financial data from both the United States and South Korea.
- Actively provided online and offline coaching to tackle various problem-solving challenges, contributing to the successful completion of the task.

2023.06. ~ Current

Full stack developer intern
AIIS CIC, Gwanak-gu, Seoul

- Automating expert recommendation using Python, MongoDB, Elastic Search, and Scholarly(Google Scholar's Open API) to enhance operational efficiency and streamline the process.

2023.05. ~ 2023.08

Assistant

| 2023 SNU FastMRI Challenge, Gwanak-gu, Seoul

- Managed GPU resources, handled Q&A, and maintained data for smooth competition operations.
- Developed baseline source code for UNet and E2EVarNet algorithms, optimizing performance and supporting participants' progress.

2023.03. ~ 2023.06.

Tutor

| Seoul National University (Faculty of Liberal Education), Gwanak-gu, Seoul

- Worked as a tutor for Python fundamentals, facilitated Q&A sessions, and managed social media channels for the course.

2023.01. ~ 2023.06.

Research Intern

Seoul national Univerisity (Oh, Songhwai), *Unpaid Internship, Gwanak-gu, Seoul

- Graduation thesis link
- Developed Object Rearrangement Algorithm Based on Reinforcement Learning
- Utilized SDF-Based Graph Convolutional Q-Networks and the EM algorithm-based coherent drift in my research.

2022.06. ~ 2022.12.

Research Intern

Seoul national University (Han, Bohyung), *Unpaid Internship, Gwanak-gu, Seoul

- Delved into various detector-related topics, including YOLO, detr, and vision transformers, through paper reading and research.
- Experience in Python has significantly improved due to prolonged periods of code review and development.

2021.12. ~ 2022.02.

Backend developer intern

Kakao Brain, Seongnam-si, Gyeonggi-do

- "Can AI perform dubbing?": The primary objective was to create a custom Text-to-Speech (TTS) service.
- Collaborated on the backend server implementation using Node.js, and integrated various technologies like GCP Compute Engine, GCP GCP Storage, Pub/Sub, and MongoDB to ensure robust functionality and scalability.
- Immersed in an agile teamwork environment, actively participating in daily stand-ups and embracing one-week sprint cycles.

2020.09. ~ 2020.12.

Frontend developer

knotehow, Yuseong-gu, Daejeon

- Designed and developed reusable components to create a modular and maintainable UI using ReactJS.
- Implemented user action-based event functionality by integrating RESTful APIs, enabling real-time data updates based on user interactions.
- Developed rendering pages with ReactJS Conducted debugging and issue resolution, utilizing React Developer Tools and browser

04 Technical Profile

- Python / PyTorch
- C / C++ / Java
- HTML / CSS / React.js / Express / Node.js / MongoDB / SQL / etc
- GitHub

05 Accomplishments

- Passed the 1st round of the 2021 SCPC (Samsung Collegiate Programming Cup)
- Ranked in the top 100 in the 2021 Hyundai Mobis Programming Contest
- Received a special award(6th) and a prize of 1.25 million won in the 2022 SNU FastMRI Challenge. (Presentation link)

06 Languages

- Korean
- English