

Sungho Yoon

CONTACT INFORMATION

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EDUCATION

- Bachelor of Science, **Mathematics**, Sogang University, Graduation Date Feb 2024
- Bachelor of Science, **Computer Science and Engineering**, Sogang University, Graduation Date Feb 2024
- CGPA: 3.76/4.3 (4.06/4.5)
- Major CGPA : 4.07/4.3 (4.37/4.5)

Publication

- 김하늘,김호재,우다연,윤성호,진창균, Attention 기반의 장단기적 시간 정보를 활용한 EEG 감정인식 모델, 2024년도 대한전자공학회 추계학술대회 논문집, 656-659.

PROGRAMMING EXPERIENCE

End-to-End Autonomous Driving Implementation November 2024 – January 2025

- Developed a full autonomous driving pipeline using Nvidia Jetson Nano and Jetracer.
- Led the Depth Estimation module, utilizing camera knowledge and linear algebra to transform 2D coordinates into 3D space.
- Integrated YOLOv8 for Object Detection, UFLD for Lane Detection, and Metric3D for Depth Estimation, optimizing inference speed with TensorRT.

Emotion Recognition using Deep Learning August 2024 – October 2024

- Conducted research on emotion recognition using EEG data, specifically applying the SEED dataset to train a deep learning model.
- Designed and optimized the model architecture with Pytorch, utilizing He initialization to address underperforming layers, achieving state-of-the-art results.
- Published findings in the Institute of Electronics and Information Engineers (IEIE) conference and received the Outstanding Student Paper Award.

Kubernetes Basics August 2024

- Built a single-node cluster(minikube) with pod containing nginx web server containers and accessed them with different ports by defining services on WSL.
- Understood basics of k8s and reasons for the use.

Spring Security, JWT Applied on a Simple Backend System March 2024

- Developed a signin, login system with Spring Security, and JWT using Spring and Java.
- Understood difference between Session Login Process and Token Login Process.

JVM compiler Implementation only for Hello World**January 2024**

- Implemented a simple JVM to compile only simple code snippets using pure Python.
- Explored Oracle JVM specification, understanding constant pool, attributes opcode etc.

SellPoint as a Backend Developer**October 2023 – December 2023**

- Developed and maintained RESTful APIs using Django and DRF to facilitate seamless communication between the front-end and back-end systems.
- Implemented various endpoints to handle CRUD operations.
- Worked closely with front-end developers to integrate API endpoints into the user interface.

Sogang Festival AWS**August 2023 – September 2023**

- Deployed and managed servers using Amazon Elastic Compute Cloud (EC2) on AWS, ensuring reliable and scalable hosting infrastructure for the Sogang Festival application.

LG CNS Summer Internship**June 2023 – August 2023**

- Conducted in-depth analysis of Daml, a smart contract language, to model digital assets and streamline business processes on blockchain platforms.
- Studied fundamental concepts of blockchain technology, consensus algorithms, and smart contracts, gaining insights into decentralized applications (DApps) and distributed ledger technology (DLT).

LikeLion – Backend Session**March 2023 – December 2023**

- Engaged in intensive training sessions focused on database modeling, CRUD (Create, Read, Update, Delete) operations, and API modeling using Django and Django Rest Framework (DRF).
- Acquired proficiency in designing relational database schemas, implementing data manipulation functionalities, and developing RESTful APIs to support front-end applications.

Startup Project(KOING) as a Frontend Developer**October 2022 – October 2023**

- Built a mobile platform named KOING which connects guides and tourists.
- Cooperated with Backend Developers via swagger, UI/UX designers via figma.
- Used flutter for client pages, several open APIs such as Google Places API.
- Learned about communication skills when doing cooperation.

Weather Info Project**May 2022 – June 2022**

- Built a program with Python that gives weather informations, and predicts tomorrow weather.
- Crawled Korea Meteorological Administration web site for weather info of the past 80 years.
- Used the crawled data to predict tomorrow's weather.
- Used numpy to operate, matplotlib to visualize, pandas to manage data.

Pintos Project**September 2022 – December 2022**

- Applied theories of operating system such as context switch, system calls, process scheduling.
- Learned how the theories of operating system are used in real programming.

Additional Information

School center rock band club Leader**February 2019 – February 2020**

- Pushed forward with several performance in many concert halls with other school band clubs.
- Contributed as a leader of the club.

Math private tutoring classes**February 2018 – February 2023**

- Taught elementary, middle, high school students about mathematics.
- Learned how to think and say logically.

SKILLS

Language: Korean(native), English(intermediate)

Problem Solving : Baekjoon (Platinum 3)

SCHOLARSHIPS

Advisor scholarship (2019-1)

QUALIFICATIONS

TOEIC 910

OPIc Intermediate High