**­­­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**

* Published 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 complie 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