JooKyung Yuh

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Education

Korea University 03/2019 – Present
Undergraduate Senior *Seoul, Republic of Korea*

- Major in Electrical Engineering (Computer Architecture, Digital circuit)
- 2.82/4.50 GPA

Research(Work) Experience

Startup Team Project 01/2024 – Present
Elliot *Seoul, Republic of Korea*

- Web Developer, Using React, NestJS, TypeScript, AWS Tools
- IOS App Developer, Using Swift

DevKor Club / Location-based social media Project 03/2022 – Present
Korea Univ. DevKor Club *Seoul, Republic of Korea*

- Front-end Developer, Using React, TypeScript

Homebrew Club / Club attendance check Web progroject 03/2022 – 08/2022
Korea Univ. Homebrew Club *Seoul, Republic of Korea*

- Back-end Developer, Using NestJS, TypeScript, MySQL, MongoDB

Professional Experience

AI, ML/DL Study 08/2023 – 12/2023
Korea Univ. Hana Wa Yeong *Seoul, Republic of Korea*

- Weekly paper reviews and presentation of PPT materials(Alexnet, Transformer etc.)
- Collecting and processing AI project data recommended for coordination by weather conditions, Using detection
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CV, Algorithm Study 08/2023 – Present
Korea Univ. DevKor Club *Seoul, Republic of Korea*

- Presentation of CV specific topics weekly (computer structure, operating system, linear regression, AI, etc.)
- commentary and presentation Coding test and algorithm problem , CPP

Related Courses

- Digital Integrated Circuit(KECE49600) :
  learned the current address of digital circuits and the circuits (sRAM etc.) actually used in the field. Using CAD tools, we were able to create a layout of the circuit and design the digital circuit by looking at the output measurements according to the input.
- Mathematical Techniques of Artificial Intelligence(MATH49101) :
  Mathematical proof of MSE to Maximum likelihood estimation using Gaussian samples to analyze and generalize
- Probability and Random Processor(KECE20902) :
  From the concept of basic probability to random variable functions such as CDF, PMF, PDF probability measures, Markov and Chevychev inequality, and Chernoff bound, we learned about random vectors.

- Information Theory and Inference Learning(COSE48500) :
  calculate the entropy of information based on Shannon Information Content, calculate the entropy in various data models using it, explain the Channel, and explain JPEG weathering as a key example. After processing the information through the Channel, we were able to learn the estimate, which is a decoding process, and analyze the Maximum Liehood Estimator (MLE).
- Signals and systems(KECE31301) :
  The system is actually a set of discrete signals divided into 0 and 1, but the actual signal can only be continuous due to various noises and surrounding conditions, and we learned the theoretical method of mixing or decoding the signal after converting the sum of the signals into Taylor Series Fourier transform and Laplace transform.

Awards & Honors

Bronze, Kwangwoon University Collaborative Robot Battle Competition
Korea Univ., Kwangwoon Univ. *2019*

Specialized Skills

Heading, eg. "Programming Languages": Python (Pytorch, Pandas, Numpy) (intermediate), C/CPP (intermediate), JAVA (beginner), TS(Frameworks : React, NodeJS, NextJS, NestJS) (intermediate), SQL (intermediate), Swift (beginner), Matlab (beginner), VLSI(beginner), R (Challenging at Kaggle) (beginner), STATAMP (beginner)
Extra lectures listened: CS231N (CNN, RNN, YOLE etc.), CS229

Other Interests

Heading, eg. "Athletics": photography