GEUNRIP PARK

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Education

Yonsei University, Seoul Mar '23 - Present
Bachelor of Science in Artificial Intelligence GPA: 3.91/4.30 (Overall), 4.08/4.30 (Major)

Sogang University, Seoul Mar '22 - Feb '23
Bachelor of Science in Computer Science and Engineering GPA: 4.30/4.30

Research Interests

Broad interest in Artificial Intelligence & Computer Science, currently exploring various fields to discover a specific area of focus. Currently interested in the following areas.

· Computer Vision, especially Object Detection

· Deep Learning, especially Classification with Convolutional Neural Network

· Computer Systems, focusing on understanding How Computers Operate at the Assembly Level

Honors & Awards

Hyupsung Scholarship, Hyupsung Cultural Foundation Spring '24 - Present
Merit-based scholarship, full tuition and living expenses support for undergraduate studies.

Honors, Yonsei University Fall '23
Qualification criteria for Honors can be found [here]

Park Jeong-ok Scholarship, Yonsei University Fall '23
Application-based scholarship, tuition support.

Projects

Simple and Smart Household Budgeting Application Sep '24 - Present
· Developing a household budgeting application that improves accuracy, ease of use, and allows for the recording financial data with personal reflections.
· Currently focused on problem definition and solution planning.

Voice Phishing Detection Application (link) Jul '24 - Aug '24
· Developed an app to detect fraudulent calls. When a call is received, it checks caller numbers with a database and notifies users. After the call, the recorded audio is analyzed for phishing risk, with results sent to the user and stored in a database.
· Took on the role of team leader, developing voice recognition and analysis APIs, and integrating them into the application.

Auto Detecting Braille OCR Program Jul '24 - Present
· Developing an enhanced 'Braille OCR Program' that automatically detects Braille in images using computer vision and deep learning techniques, such as object detection.

Highway Driving Simulation with DQN May '24 - June '24
· Developed a reinforcement learning model that optimizes lane-changing and speed control strategies in a multi-vehicle environment using the DQN algorithm in the Python Highway-env package.

CIFAR-100 Image Classification with CNN (link) Mar '24 - Apr '24
· For studying machine learning and deep learning, implemented various CNN architectures including SimpleCNN, GoogleNet, VGGNet, and ResNet, achieving a test accuracy of 76% with ResNet.

Braille OCR Program (link) Mar '23 - Nov '23
· Developed a program that converts Braille in images to text to assist in finding misprinted Braille. Ultimately, this program aims to support the mobility rights of visually impairments.
· Took a role in designing the architecture and algorithms, and developed a component that recognizes Braille in images and converts it to Braille ASCII. Subsequently, integrated the component that converts Braille images to Braille ASCII with the component that converts Braille ASCII to text.

2048: A Programming Project (link) June '22 - Aug '22
· Implemented the 2048 game in C for programming practice.

Teaching Experience

Tutoring, Yonsei CCO1100: Computer Programming Spring '24
Tutor
· Taught a Python programming for 18 CS/AI students at Yonsei University.

Instructor, Python Programming & OOP, Dong-eui University Summer '23
Instructor
· Instructed a class of high school students about python and object-oriented programming.

Instructor, C/C++ & Python Programming, Dong-eui University Winter '22
Instructor
· Instructed a class of high school students about C/C++ and Python with algorithm.

Services

Student Council of the Department of Artificial Intelligence Jan '24 - Present
Committee, Head of Administrative Department
· Managed and organized orientation programs and various departmental programs.
· Promoted departmental programs and managed tasks about programs.

Extracurricular Activities

CreAI+IT Club, Yonsei University Sep '24 - Present
Member
· Generative AI-based startup exploration.
· Developing a 'Simple and Smart Household Budgeting Application' utilizing Generative AI.

2024 AWS X Yonsei Summer Camp, Yonsei University Summer '24
3^{rd} *Place, Leader of team 'ParkGunlip'*
· Developed the 'Voice Phishing Detection Application' to identify and prevent fraudulent calls.
· Took a role in developing voice recognition and analysis APIs, as well as integrating them into the application.

YCC Club, Yonsei University (Yonsei Computer Club) Sep '23 - Present
Member
· Participated in multiple Algorithm-related studying groups.

Yonsei-Nexon RC Creative Platform, Yonsei University Mar '23 - Nov '23
Team member
· Developed the 'Braille OCR Program' that recognizes braille in images and converts it to text.
· Took a role in designing the architecture and developed an OCR component.

Eagle-Eagle Club, Yonsei University Mar '23 - Present
Member
· Participated in bowling events and organized practices.

Skills

Programming Languages	C/C++, Python, Matlab
Languages	Korean (Native), English (Intermediate)
Tools	Vim, Make, LaTeX, Raspberry Pi, Arduino