Taejun um, Bachelor

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Education

2019 – · · · · **Gwangju Institute of Science and Technology(GIST)**
B.S in Electrical Engineering and Computer Science

2016 – 2018 Korean Minjok Leadership Academy(KMLA)

2013 – 2015 Guryong Middle school

2007 – 2012 Gaeil Elementary school

Skills

Languages English, Korean

Coding Java, Python, C++

Learned Subject Data structure, Introduction to Algorithm, Digital Design, Computer Architecture

Research Interest

As an aspiring graduate student, my current experience in the field of computer science is limited. Nevertheless, I have a strong passion for this subject and I am particularly interested in the study of computer architecture and algorithmic analysis. Additionally, I am drawn to the mathematical foundations that underpin the field, especially in areas such as linear algebra, calculus, probability, and statistics, and I believe that a deeper understanding of these concepts will be crucial to my development as a researcher. Ultimately, my goal is to contribute to the advancement of computer science through innovative research and to tackle challenging problems that have real-world implications.

Extra Curricular Activities

Programming I have developed a software application that employs genetic algorithms to automatically generate optimized timetables for individual classes. By utilizing this algorithmic approach, my program is able to solve complex scheduling problems commonly encountered in academic settings. The genetic algorithm utilizes natural selection and genetic recombination to improve the quality of the timetable output, with fitness criteria including factors such as course conflicts, class availability, and room capacity.

Mechatronics I soldered an ATMEGA 128 microcontroller onto a development kit and developed a custom 7-segment LED display with accompanying software for real-time control of the illumination of the LED segments. By integrating hardware and software components, I gained valuable experience in embedded systems design and programming, and developed my skills in electronics and computer engineering.

Miscellaneous Experience

Scholarship

March, 2019 - Present **Gist Scholarship**. Government supported.