# Sung Min Jeon

| Seoul, Korea | 2001.06.14 | jsm5792@snu.ac.kr | (+82) 010-4101-2613 |
GitHub: https://github.com/jsm5792

## EDUCATION

**Seoul National University | Seoul, Korea**                                    **Mar 2020 – Present**
Bachelor of Engineering
Major in Rural systems, Interdisciplinary Major of Artifical Intelligence, Minor in Electrical & Computer
*Cumulative GPA: 3.56/4.30*                                                     **Exp. Grad.: Feb 2027**

**Daejeon Science High School for the Gifted | Daejeon, Korea**                 **Mar 2017 – Feb 2020**

## REASEARCH EXPERIENCE

**Networked Computing Lab.**                                                    **Jul 2024 – Feb 2025**
*Undergraduate Intern*
- Studied Binarizing models, Mobile Clustering, Preemption on Mobile Edge GPUs

**Multiphysics Structrue & Systems Engineering Lab.**                           **Dec 2023 – Mar 2024**
*Undergraduate Intern*
- Proposed machine learning based flood damage prediction model

## PROJECT EXPERIENCE

**Generative AI Image Editing Project**                                         **Oct 2025 – Dec 2025**
- Developed a semantic image editing pipeline using Stable Diffusion to perform precise concept replacement on real-world images while maintaining background consistency
- Integrated Textual Inversion with Null-text Inversion to separate object identity from spatial structure, applying SLERP-based latent blending and attention masking for high-fidelity synthesis

**Quantum AI Contest (1st place)**                                              **Jul 2025 – Aug 2025**
- Generated a hybrid AI model to classify FashionMNIST dataset(label 0 & label 6)
- Implemented and verified Renyi entropy estimation for rational values of alpha by measuring quantum circuits using classical shadow and binomial theorem

## ACTIVITIES

**Mentor**              *- Chungbuk Science Gifted Mentoring (Information Division)*     **Jul 2025 – Nov 2025**
- Designed a Machine Learning Course for 4 students

## PUBLICATIONS

Dongwoo Lee, Mingyu Kim, Sangjun Park, **Sungmin Jeon** (2018). "Idendification of the way to fold regular n-gons when n=7,13,19 and 37', *The Journal of Youths in Scientific Research*, Vol. 3, No. 1, pp.33-54.

## HONORS AND AWARDS

**Dongwon Scholarship**                                                         2024 1st, 2nd
**Agricultural Engineers Scholarship**                                          2023 1st, 2nd, 2025 2nd
**Sangrok Cultural Foundation Scholarship**                                     2025 1st

## ADDITIONAL

**Technical Skills:** Advanced in C, C++, Python
**Language:** Korean (Native), English (Fluent)
**Interests:** Tennis