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<https://parkcheolhee-lab.github.io/testbed/>
<https://github.com/parkcheolhee-lab>

Updated Sep 2025

BRIEF INTRODUCTION

While majoring in architecture, I used geometry as a common language for design and communication, and later developed this background through practical experience in the PropTech startup. These experiences naturally expanded my interest in data-driven design, design optimization, and geometric deep learning to solve complex design problems

WORK EXPERIENCE

Computational Designer @ Spacewalk

Jan 2022 - present

- Implemented geometry and spatial data processing pipelines
- Conducted research to productionize geometric algorithms for deployment in real-world applications
- Contributed to PlanNext, an LLM-based office layout generation automation engine that automates workspace planning to integrate text-based user requirements into the generative process
- Built LBDeveloper engine for apartment design feasibility analysis, integrating building law, and optimization design algorithms
- Developed and maintained the architectural design exploration engine of Landbook, a platform providing property data and a one-click solution that automates feasibility analysis and schematic planning

Architectural Designer @ S.E.A Architects

Jun 2019 – Jul 2019

- Assisted in preparing design drawings and visualizations
- Conducted design studies, including site analysis, scale feasibility, and compliance with building codes
- Participated in architectural competitions, contributing to concept design and schematic proposals

SKILLS

Machine Learning: Python, PyTorch, TorchGeometric, HuggingFace **Geometry:** Shapely, Three.js, Trimesh, Rhino, Grasshopper, Revit, AutoCAD **Frontend:** Javascript, Typescript **Database:** PostgreSQL, PostGIS **DevOps:** AWS S3, EC2, ECR, Docker, Github Actions **Collaboration:** Git, Github, JIRA, Slack **API Development:** FastAPI, Flask

EDUCATION

Korean National University of Transportation

Bachelor of Architecture - BArch

GPA: 3.84 / 4.50

Mar 2013 - Feb 2021

Korean National Open University

Bachelor of Computer Science - BCS

3rd Year Transfer

Mar 2025 - Present

CERTIFICATION

ENCORE Playdata

Big Data Project-Based Learning Training Program
for Data Scientists

Certificate of Completion

May 2021 - Nov 2021