CHEOLHEE PARK

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

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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

- Rebuilt and advanced LBDeveloper engine for apartment design feasibility analysis, integrating building law and optimization design algorithms

- Developed, advanced, 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

- Developed third-party plugins used in Rhino Grasshopper for in-house architects (BOUNDLESS Architects)

- Created and managed Tech Blog showcasing computational design projects and research

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

TECHNICAL STACK

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 2021Mar 2025 – Present

Korean National Open University
Bachelor of Computer Science - BCS
3rd Year Transfer

CERTIFICATION

ENCORE Playdata
Project-Based Training Program for Data Scientists
Certificate of Completion
May 2021 - Nov 2021