CHEOLHEE PARK

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

OVERVIEW

With a background in architecture and a foundation in computational design, I worked as a software engineer at a PropTech startup, developing geometry processing, spatial data pipelines, and machine learning applications for architectural design. I have built design exploration engines for apartment design feasibility analysis, small housing design exploration, and LLM-based office layout generation, bridging architectural knowledge with computational methods.

WORK EXPERIENCE

Software Engineer @ *Spacewalk*   **Jan 2022 - Present**

I have been working as a software engineer, conducting research to productionize geometric algorithms for deployment in real-world applications. I contributed to *PlanNext*, an LLM-based office layout automation engine, rebuilt the *LBDeveloper* an apartment feasibility analysis service, and advanced the *Landbook* design exploration platform. I also created Rhino Grasshopper plugins to support in-house architects at BOUNDLESS Architects.

Architectural Design Intern @ *S.E.A Architects*   **Jun 2019 – Jul 2019**

I worked as an architectural design intern, assisting in design drawings and visualizations, conducting site analysis, feasibility studies, and contributing to competitions through concept and schematic design proposals.

SKILLS

Machine Learning: Python, PyTorch, TorchGeometric, HuggingFace **Geometry:** Shapely, Three.js, Rhino, Grasshopper, 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

Korea National Open University
Bachelor of Computer Science - BCS
3rd Year Transfer
Mar 2025 - Present

Korea National University of Transportation
Bachelor of Architecture - BArch
GPA: 3.84 / 4.50
Mar 2013 - Feb 2021

CERTIFICATION

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

Chiangmai University
International Urban Regeneration Workshop
Certificate of Completion
Dec 2018

Korea Institute of Construction Technology Education
Building Information Modeling Professional Course
Certificate of Completion
Dec 2020 - Mar 2021

AWARDS

Korea Iron & Steel Association
Steel Modular Architecture Competition
Encouragement Award
Nov 2020

Architectural Institute of Korea
Academic Presentation Conference
Excellence Prize
Nov 2020

Korea National University of Transportation
Graduation Exhibition
Grand Prize (3rd)
Jun 2020

The Korean Institute of Culture Architecture
Next Generation Cultural Space Competition
Special Selection
Nov 2019

Korea Railroad (KORAIL)
Korea Railroad Architecture Competition
Grand Prize (2nd)
Oct 2019