

CHEOLHEE PARK

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

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

Updated Oct 2025

SUMMARY

Software engineer with an architectural background, specializing in geometry processing, spatial data pipelines, and machine learning applications for design. Experienced in developing LLM-based design engine for office layout generation, feasibility studies, and interactive design exploration, bridging design knowledge with modern 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

SAMOO Architects

2020 SAMOO Design Workshop (SDW)

Certificate of Completion

Aug 2020

Korea Institute of Construction Technology Education

Building Information Modeling Professional Course

Certificate of Completion

Dec 2020 - Mar 2021

Chiangmai University

International Urban Regeneration Workshop

Certificate of Completion

Dec 2018

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