

# CHEOLHEE PARK

+82 10 9248 2485 | park112368@gmail.com  
<https://parkcheolhee-lab.github.io/testbed/>  
<https://github.com/parkcheolhee-lab>

Updated Dec 2025

## SUMMARY

With a background in architecture and a foundation in computational geometry, 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 feasibility analysis, small housing design, and LLM-based office layout generation, bridging architecture with computational methods.

## EXPERIENCE

### Software Engineer @ *Spacewalk*

Jan 2022 – Nov 2025

At Spacewalk, I worked as a software engineer, conducting research and development to productionize geometric algorithms for deployment in real-world applications. My contributions included developing *PlanNext*, an LLM-based office layout automation engine; rebuilding *LBDeveloper*, an apartment placement and feasibility analysis service; and advancing and maintaining *Landbook*, a platform for small housing planning exploration. Also, I 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, supporting design development through drawings and visualizations, conducting site analysis and feasibility studies, and contributing to competitions with concept and schematic design proposals.

### Undergraduate Researcher @ *DART lab*

Mar 2018 – Apr 2019

As an undergraduate researcher at DART (Digital Association of Research & Technology for Architecture) at KNUT, I assisted with design studies, building 3D parametric models using Rhino and Grasshopper to support architectural and urban design.

## 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 & Engineers

Samoo Design Workshop (SDW) 2020  
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

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## AWARDS

**Korea Iron & Steel Association**

Steel Modular Architecture Competition  
Encouragement Award  
Nov 2020

**The Korean Institute of Culture Architecture**

Next Generation Cultural Space Competition  
Special Selection  
Nov 2019

**Architectural Institute of Korea**

Academic Presentation Conference  
Excellence Prize  
Nov 2020

**Korea Railroad (KORAIL)**

Korea Railroad Architecture Competition  
Grand Prize (2<sup>nd</sup>)  
Oct 2019

**Korea National University of Transportation**

Graduation Exhibition  
Grand Prize (3<sup>rd</sup>)  
Jun 2020

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## SKILLS

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