

Cheolhee Park

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

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SUMMARY

Software Engineer and Computational Designer with a background in architecture and computer science, specializing in generative design. Experienced in developing spatial data systems and machine learning applications for design automation.

EXPERIENCE

Software Engineer @ aaro

Mar 2026 – Present

Working in collaboration with *neoBIM* on the development of a generative design and automation product for architectural planning and feasibility analysis based on German building regulations and planning codes.

Research Intern @ Visual Media Lab, KAIST

Dec 2025 – Feb 2026

Contributed to the development of a multimodal virtual space automation system funded by KOCCA, focusing on converting interior image inputs into coherent 3D scenes using models for image-to-3D reconstruction, object detection, and semantic segmentation.

Software Engineer @ Spacewalk

Jan 2022 – Nov 2025

Conducted research and development to productionize geometric algorithms for architectural planning and feasibility analysis. Developed computational design systems that translate spatial constraints, planning requirements, and geometric conditions into workflows for office layout automation, apartment placement, housing feasibility studies, and mass-planning.

Design Intern @ SANGJI Architects

Jun 2019 – Jul 2019

Supported architectural design development through drawings, 3D visualizations, site analysis, and mass studies. Assisted with competition proposals from concept development to schematic design.

Research Intern @ DART lab, KNU

Mar 2018 – Apr 2019

Assisted with architectural and urban design studies, developing parametric 3D models using Rhino and Grasshopper.

EDUCATION

Korea National Open University

Mar 2025 – Present

Bachelor of Science in Computer Science

3rd - year transfer

Korea National University of Transportation

Mar 2013 - Feb 2021

Bachelor of Architecture

CERTIFICATIONS

en-core PLAYDATA

May 2021 - Nov 2021

Project-Based Training Program for Data Scientists

Korea Institute of Construction Technology Education

Dec 2020 - Mar 2021

Building Information Modeling Professional Course

SAMOO Architects & Engineers

Aug 2020

SAMOO Design Workshop (SDW 2020)

Chiangmai University

Dec 2018

International Urban Regeneration Workshop

AWARDS

Korea Iron & Steel Association

Nov 2020

Steel Modular Architecture Competition

Encouragement Prize

Architectural Institute of Korea

Nov 2020

Academic Presentation Conference

Excellence Prize

Korea National University of Transportation

Jun 2020

Graduation Exhibition

Grand Prize (3rd)

The Korean Institute of Culture Architecture

Nov 2019

Next Generation Cultural Space Competition

Special Selection

Korea Railroad (KORAIL)

Oct 2019

Korea Railroad Architecture Competition

Grand Prize (2nd)