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| **CHEOLHEE PARK** | | | ㅤ |
| +82 10 9248 2485 | park112368@gmail.com  <https://parkcheolhee-lab.github.io/testbed/>  <https://github.com/parkcheolhee-lab> | | | **Updated Oct 2025** |
| **OVERVIEW**  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 design feasibility analysis, small housing design exploration, and LLM-based office layout generation, bridging architecture with computational methods. | | | |
| **WORK EXPERIENCE**  **Software Engineer** *@ Spacewalk* | | | **Jan 2022 - Present** |
| 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. | | | |
| **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](https://parkcheolhee-lab.github.io/portfolio-architectural.pdf)  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  **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 | | |
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