TAEIL NOH

SOFTWARE ENGINEER

CONTACT

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SKILLS

- **Programming Languages**

  - python, c, c++, javascript

- **System and Tools**

1. **Bioinformatics Tools**(Gromacs, Schrodinger, Haddock, Pymol, MMseq2, Blast, docking tools, esm, rdkit)
2. **Software engineering**(Github, Aws, Docker, django, Pytorch, React)

LANGUAGES

- Korean : Native
- English: Fluent (TOEFL iBT 102)

REFERENCE

Nationality : Republic of Korea

Birth : 17, Sep, 2001

PROFILE

Creative and driven undergraduate researcher passionate about AI-powered bioinformatics solutions for drug discovery.
Experienced in generative modeling, protein docking, and scalable backend systems using modern frameworks.
Always eager to challenge boundaries, build impactful tools, and contribute to the future of personalized medicine.

EDUCATION

Bachelor of Computer Engineering 2020 - 2026(expected)

School of Engineering | Hongik University, Republic of Korea

GPA : 3.68 / 4.5 [**MAJOR GPA :** 4.24/4.5]
(credits take 115/132)

INTERSHIP

Bio Software & Intelligent Platform Lab 2024(FEB) - PRESENT

undergraduate researcher

Antibody Sequence Optimization via Deep Generative Models

- Developed AI models (VAE, CVAE, VQ-VAE, CVQ-VAE) to generate optimized antibody sequence.(& CNN classified)

Peptide-Protein Interface Structure Prediction

- Trained large-scale generative models (Diffusion Models, VAE, VQ-VAE) using extensive peptide datasets to predict peptide-protein docking interfaces.

Modular and Parallelized Drug Discovery Pipeline under Schrodinger Licensing Constraints

- implemented a parallelized drug discovery pipeline under limited resources.
- Pipeline includes: PDB fixing → protein preparation → docking → energy minimization → sequence mutation → comparative scoring using various metrics.

HADDOCK Docking Automation and GPU-Accelerated Parallelization

- Built a Docker-based automated pipeline for large-scale HADDOCK docking simulations with source code-level customization, and GPU-accelerated parallel docking.

EXTRACURRICULAR ACTIVITIES

CatchMe Web application 2023(MAR) - 2024(FEB)

Backend engineer

- Developed the backend of CatchMe, a web-based application, using the Python Django framework.

Laidd drug discovery development bootcamp 2024(AUG) - 2024(AUG)

- AI Drug Discovery Bootcamp Completion Certificate Hosted by Korea Pharmaceutical and Bio-Pharma Manufacturers Association (KPBMA)

Band Khalua 2020 - PRESENT

- drummer (2020 - PRESENT)
- president (2021-2022)

Certification

- Network Advisor 2 (Certificate No : NT2062879)

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