

Hyuksoon Jang

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Education

M.S. Pohang University of Science and Technology Computer Science and Engineering (advised by Kyungmin Bae)	Aug 2023 – Present
B.S. Chungbuk National University Computer Engineering (advised by Kyuri Jo)	Mar 2019 – Mar 2023

Publications

Model Checking of WebAssembly Software Using Maude Hyuksoon Jang, Kyungmin Bae. Korea Computer Congress (To appear, 2025) 🔗	2025
Inferring transcriptomic cell states and transitions from time series transcriptome data Jo K, Sung IY, Lee D, Jang H , Kim S. Scientific Reports (2021) 🔗	2021

Projects & Experience

Model Checking of WebAssembly Software with WASM-DSL <ul style="list-style-type: none"> Developing a model-checking framework for WebAssembly software to verify distributed-system properties Implementing compilation rules that translate the WASM-DSL into Maude rules to automatically conform to the WebAssembly specification Developing an efficient state-reduction algorithm to address the state-explosion problem 	2024 - Present
MimicStudio: Web service that automatically generates 3D product models <ul style="list-style-type: none"> Led the team and implemented the neural-rendering server with Instant-NGP Implemented an upscaling algorithm to improve the resolution of 3D videos 	2022
COSMIC: AI-Driven Web Projects Club <ul style="list-style-type: none"> Founded and lead the club; built web projects including an AI-based security-camera service and an undergraduate course-recommendation platform Designed and supervised several instructional toy projects to teach web frameworks such as React and Django 	2020 - 2022

TEACHING

CSED415: Computer Security (TA) 🔗	2025 Spring
5110160: Machine Learning (TA)	2021 Fall
0622014: Applied Computer Programming (TA)	2020 Fall, 2021 Fall
0914002: Fundamental Computer Programming (TA)	2021 Spring, 2022 Spring

AWARDS & FUNDING

Master's Research Fellowship — National Research Foundation of Korea	2021
Lotte Scholarship	2020–2023

Daeshin Freight Scholarship

2020–2023

Software Maestro Program Grant, 13th Cohort — Ministry of Science and ICT

2022

Excellence Scholarship — Software-Centered University Program, CBNU

2020–2022