

# Wookyung Jeong

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<https://github.com/manoflearning>

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INTERESTS	Deep Learning, AI Low-level Optimizations, Algorithmic Problem Solving	
EDUCATION	Jeonbuk National University <i>Undergraduate Student</i> <ul style="list-style-type: none"><li>B.S. in Computer Science and Engineering</li><li>Minor: B.S. in Mathematics</li></ul>	Mar 2019 - Present Jeonju, Korea
HONORS AND AWARDS	<a href="#">International Collegiate Programming Contest (ICPC)</a> <ul style="list-style-type: none"><li><b>55th Place, ICPC Asia Pacific Championship, 2024</b></li><li>18th Place, ICPC Asia Jakarta Regional, 2023</li><li>31th Place, ICPC Asia Seoul Regional, 2023</li><li>36th Place, ICPC Asia Seoul Regional, 2022</li></ul> 5th / 3rd Place, Jane Street's Electronic Trading Challenge (ETC), 2023 5th Place Prize, Hyundai Mobis Programming Contest, 2023 Finalist, Samsung Collegiate Programming Cup, 2022 - 2023 <b>Round 3 Qualifier (Top 500), Meta Hacker Cup, 2022</b> <b>Master (Max Rating 2197, Top 1.59%), Codeforces, 2020 - Present</b>	
PROJECTS	<a href="#">Cranberry</a>   Deep Learning, Rust, Python <ul style="list-style-type: none"><li>Developed a deep learning library from scratch using Rust and Python.</li><li>Implemented tensor operations, including binary ops (add, mul, etc.), reduce ops (sum, max, etc.), movement ops (reshape, expand, etc.), and others (matmul, softmax, cross entropy, etc.).</li><li>Verified correctness by comparing outputs with PyTorch.</li><li>Provides a user-friendly API similar to PyTorch, ensuring ease of use and familiarity for users.</li></ul> <a href="#">CP Reference Codes</a>   Algorithm, C++ <ul style="list-style-type: none"><li>Built a programming library with documentation for competitive programming contests.</li><li>Researched cost-efficient and concise implementations of data structures and algorithms, including disjoint set union, segment tree, and centroid decomposition, and implemented them in C++.</li></ul>	Mar 2024 - Present Jun 2020 - Present
EXPERIENCE	<a href="#">Medical AI &amp; Computational Science Laboratory</a> , Jeonbuk National University <i>Research Intern</i> (Advisor: Prof. Kyungsu Lee) <a href="#">Visual Computing Laboratory</a> , Jeonbuk National University <i>Research Intern</i> (Advisor: Prof. Hyunki Kim) <ul style="list-style-type: none"><li>Learned the fundamental concepts of machine learning and deep learning, from MLP to Transformer.</li><li>Reviewed papers in the field of 3D reconstruction, including NeRF, 3D Gaussian Splatting.</li></ul>	Apr 2024 - Present Jeonju, Korea Nov 2023 - Apr 2024 Jeonju, Korea
ACTIVITIES	<a href="#">Union of Clubs for Programming Contests</a> <i>Vice President</i> <ul style="list-style-type: none"><li>Served as the Vice President at UCPC, a union of 34 clubs from 33 universities in Korea.</li><li>Main organizer of <b>Good Bye, BOJ 2023! / Hello, BOJ 2024!</b>, a Korean year-end / new year programming competition. Primarily responsible for sponsor contact and coordination: Samsung Electronics, LG Electronics, Hyundai Mobis, Moloco, Jane Street, etc.</li><li>Organizer of <b>UCPC 2023</b>, a Korean programming competition with 660+ participants. Organized onsite contest with about 150 participants.</li></ul>	Mar 2023 - Present Seoul, Korea
SKILLS	Programming Languages: C, C++, Python, Rust Machine Learning: PyTorch, TinyGrad Other Skills: Git/GitHub, LaTeX Languages: Korean (Native), English (Upper Intermediate)	