

Wookyung Jeong

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<https://github.com/manoflearning>

INTERESTS	Deep Learning, AI Low-level Optimizations, Algorithmic Problem Solving	
EDUCATION	Jeonbuk National University <i>Undergraduate Student</i> <ul style="list-style-type: none">B.S. in Computer Science and EngineeringMinor: B.S. in Mathematics	Mar 2019 - Present Jeonju, Korea
HONORS AND AWARDS	International Collegiate Programming Contest (ICPC) <ul style="list-style-type: none">55th Place, ICPC Asia Pacific Championship, 202418th Place, ICPC Asia Jakarta Regional, 202331th Place, ICPC Asia Seoul Regional, 202336th Place, ICPC Asia Seoul Regional, 2022 5th Place Prize, Hyundai Mobis Programming Contest, 2023 Finalist, Samsung Collegiate Programming Cup, 2022 - 2023 Round 3 Qualifier (Top 500), Meta Hacker Cup, 2022 Master (Max Rating 2197, Top 1.59%), Codeforces, 2020 - Present	
PROJECTS	Cranberry Rust, Python <ul style="list-style-type: none">Developed the deep learning framework Cranberry.Implemented Tensor operations, including Add, Mul, Matmul, ReLU, Crossentropy, Reshape, Permute, and Expand. Optimized them on the CPU using simd.Provides a PyTorch-like API, making it easy to learn.Planning to port to multiple AI accelerators, starting with NVIDIA GPUs. CP Reference Codes C++ <ul style="list-style-type: none">Built a programming library with documentation for competitive programming contests.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++.	Mar 2024 - Present Jun 2020 - Present
EXPERIENCE	Medical AI & Computational Science Laboratory , Jeonbuk National University <i>Research Intern</i> (Advisor: Prof. Kyungsu Lee) Visual Computing Laboratory , Jeonbuk National University <i>Research Intern</i> (Advisor: Prof. Hyungki Kim) <ul style="list-style-type: none">Learned the fundamental concepts of machine learning and deep learning, from MLP to Transformer.Reviewed papers in the field of 3D reconstruction, including NeRF, 3D Gaussian Splatting.	Apr 2024 - Present Jeonju, Korea Nov 2023 - Apr 2024 Jeonju, Korea
ACTIVITIES	Union of Clubs for Programming Contests <i>Vice President</i> <ul style="list-style-type: none">Served as the Vice President at UCPC, a union of 34 clubs from 33 universities in Korea.Main organizer of Good Bye, BOJ 2023! / Hello, BOJ 2024!, 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.Organizer of UCPC 2023, a Korean programming competition with 660+ participants. Organized onsite contest with about 150 participants.	Mar 2023 - Present Seoul, Korea
SKILLS	Programming Languages: C, C++, Python, JavaScript, Rust Machine Learning: PyTorch, TinyGrad Web Technologies: HTML/CSS, JavaScript Other Skills: Git/GitHub, LaTeX Languages: Korean (Native), English (Upper Intermediate)	