

Jinwoo Park

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Professional Summary

Experienced Machine Learning Engineer & Technical Lead with a proven record of delivering scalable AI solutions and building high-performing engineering teams. Demonstrated success driving business growth (440% sales increase), leading open-source initiatives (4.5k+ stars), and mentoring engineers through all stages of ML product development. Skilled at turning research into robust, production-ready systems and uniting engineers around ambitious goals in dynamic environments.

Machine Learning Engineering Experience

Aug 2023 - present	ML Engineer & Project Lead at SNOW Corporation (Seongnam) <ul style="list-style-type: none">• Led the launch of “ID Photo” with advanced text-to-image personalization, achieving 440% purchase growth.• Architected and deployed a Kubernetes-based GPU cluster that accelerated ML development and deployment for cross-functional teams.• Developed and deployed generative AI pipelines for personalization and image editing, reducing inference latency by 85%.
Nov 2018 - Jul 2023	ML Engineer / Tech Lead - Startup Track at Medipixel, J.Marple, MakinaRocks, Annotation-AI (Seoul) <i>(Medipixel: Nov 2018–Aug 2019, J.Marple: Sep 2019–Oct 2020, MakinaRocks: Oct 2020–Jan 2022, Annotation-AI: Jan 2022–Jul 2023)</i> <ul style="list-style-type: none">• Led end-to-end AI service delivery in medical robotics, semiconductor, and manufacturing; managed projects from concept to deployment across four high-growth startups.• Improved real-time image segmentation throughput by 80% at Annotation-AI (optimized Segment Anything from 1024 to 200 calls on CPU).• Led a GNN/RL-based FPGA/ASIC placement optimization project at MakinaRocks, achieving +0.7% WNS improvement compared to industry and human benchmarks (presented at Devview 2021).• Secured 1st place and a KRW 200 million award in the AI Grand Challenge 2020 (Model Compression Track) at J.Marple.• Developed, open-sourced, and maintained SOTA RL algorithms (e.g., Rainbow IQN) with 500+ GitHub stars at Medipixel.• Designed and operated robust ML/AI serving infrastructure in Kubernetes/K3S; implemented GPU scheduling, scalable backend APIs in FastAPI/Golang, and established distributed system management and comprehensive monitoring.• Mentored engineering teams and presented at major tech conferences.

Software Development Experience

Nov 2013 - Jan 2017	Software Developer at Ericsson (2014–2017), Smilegate (2013–2014) (Seoul/Anyang) <ul style="list-style-type: none">• Developed LTE RBS Layer-3 features; specialized in automation and distributed test systems.• Improved network performance and scalability; led memory optimization with over 20% usage reduction.
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Open Source & Research

- **Rainbow RL Tutorial** (Creator): **1.9k+ stars** - Hands-on RL education resource
- **PG RL Tutorial** (Co-creator): **900+ stars** - Policy Gradient methods for practitioners
- **Segment-Anything with CLIP** (Creator): **300+ stars** - Advanced vision demo toolkit
- **RL Algorithms** (Lead developer): **500+ stars** - SOTA RL algorithms, open-sourced
- **Model Compression** (Creator): **200+ stars** - Efficient model optimization
- **Active Open Source Contributor:** PyTorch, Huggingface, BentoML, KServe, PyG, GoCV, etc.
- **Publications:** IEEE Access (2021) – Deep RL in medical robotics ([9648308](#))
- **2 patents:** AI-based semiconductor design automation ([1024748560000](#), [1024200710000](#))

Core Skills

- **Programming:** Python, Golang, C/C++, Erlang
- **Generative AI (Image):** Diffusion Models, Personalization, Inversion, Instruction-based Image Editing
- **Deep Learning Techniques:** Model Compression (Quantization, Pruning, Knowledge Distillation), GNN, Reinforcement Learning (Rainbow, PPO, SAC)
- **Deep Learning Frameworks:** PyTorch, Diffusers, ComfyUI, Kohya
- **Model Deployment:** Triton Inference Server, BentoML, KServe
- **Backend:** Traefik, Authentik, FastAPI, Echo
- **Test & Monitoring:** Locust, Prometheus, Grafana, Loki, Promtail
- **Infrastructure & DevOps:** Docker, Kubernetes (k8s), K3S, Helm, ArgoCD, Harbor

Education

2006 - 2014	Bachelor’s Degree, Computer Science, Dongguk University (Seoul) <ul style="list-style-type: none">• Honors student & Teaching Assistant, Visual Simulation Lab
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