

# Jinwoo Park

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## Highlights

- **Client-Centric, Domain-Independent Problem Solver:** Skilled in working closely with clients to understand complex challenges and translate needs into actionable technical solutions, ensuring alignment with business objectives across diverse industries.
- **Cross-Functional Technical Leadership:** Demonstrated success in coordinating with cross-functional teams to implement ML solutions that align with organizational goals, particularly in cost management, resource scaling, and end-to-end system integration.
- **Architect of Robust, Scalable Systems:** Extensive experience in building distributed systems that meet enterprise-level demands, leveraging Kubernetes, Docker, and CI/CD for seamless scaling, zero-downtime, and reliable system performance.
- **Consistent and Dedicated Contributor to Open-Source Communities:** Regularly contribute to projects that advance the AI and ML fields, including widely used libraries like PyTorch and Huggingface.

## Experience

<b>Aug. 2023 - present</b>	<b>ML Engineer;</b> SNOW Corporation (Seongnam) <ul style="list-style-type: none"><li>• Roles: Text-to-image personalization for productions, system optimization for cost reduction, service migration to k8s, and internal service development.</li><li>• Skills: Computer Vision, Python, Docker, Kubernetes, PyTorch, ComfyUI, Git</li></ul>
<b>Jan. 2022 - Jul. 2023</b>	<b>ML Team Lead (Team Initiator);</b> Annotation-AI (Seoul) <ul style="list-style-type: none"><li>• Roles: Computer vision model implementation, MLOps product design, high-performance inference service.</li><li>• Skills: Computer Vision, Python, Golang, Docker, Kubernetes, PyTorch, Git</li></ul>
<b>Oct. 2020 - Jan. 2022</b>	<b>ML Project Lead (Team Initiator);</b> MakinaRocks (Seoul) <ul style="list-style-type: none"><li>• Roles: Industrial combinatorial optimization, FPGA/ASIC placement with Distributed Reinforcement Learning.</li><li>• Skills: Reinforcement Learning, Python, Docker, PyTorch, Git</li></ul>
<b>Sep. 2019 - Oct. 2020</b>	<b>ML Research Engineer;</b> J.MARPLE (Seoul) <ul style="list-style-type: none"><li>• Roles: Model predictive control research, active learning, model compression for embedded systems.</li><li>• Skills: Model Predictive Control, PID, Model Compression, Python, Docker, PyTorch, Git</li></ul>
<b>Nov. 2018 - Aug. 2019</b>	<b>ML Research Engineer;</b> Medipixel (Seoul) <ul style="list-style-type: none"><li>• Roles: Guide-wire control automation, off-policy learning, team methodologies.</li><li>• Skills: Reinforcement Learning, Python, Docker, PyTorch, Git</li></ul>
<b>Oct. 2014 - Jan. 2017</b>	<b>SW Developer;</b> Ericsson (Anyang) <ul style="list-style-type: none"><li>• Roles: LTE RBS L3 feature development, test automation.</li><li>• Skills: C/C++, Erlang, Git, Gerrit</li></ul>
<b>Nov. 2013 - May. 2014</b>	<b>SW Developer;</b> Smilegate (Seongnam) <ul style="list-style-type: none"><li>• Roles: TCP/IP server testing tool development, distributed system development.</li><li>• Skills: C++, IOCP, MFC</li></ul>

## Education

<b>2006 - 2014</b>	<b>Bachelor's Degree, Computer Science;</b> Dongguk University (Seoul) <ul style="list-style-type: none"><li>• Teaching Assistant, Research Assistant in Visual Simulation Lab, Honors student for years.</li></ul>
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## OpenSource

- Contributions to PyTorch, Huggingface, BentoML, KServe, GoCV, PyG, etc.
- Key Projects:
  - **rainbow-is-all-you-need** ★ **1.9k** – A comprehensive tutorial on reinforcement learning, guiding users from DQN to advanced techniques in Rainbow, widely used by practitioners and learners.
  - **pg-is-all-you-need** ★ **860** – A detailed, accessible guide to Policy Gradient methods, supporting learning and experimentation within the AI community.
  - **rl\_algorithms** ★ **510** – Structural implementations of key reinforcement learning algorithms, helping teams integrate RL into real-world applications.
  - **segment-anything-with-clip** ★ **331** – An advanced resource combining segmentation with CLIP, offering practitioners versatile segmentation tools.
  - **model\_compression** ★ **230** – Provides algorithms for deep learning model compression in PyTorch, optimized for embedded systems.
  - Additional contributions include tools like **serving-codegen-gptj-triton** and **comfyui-onprem-k8s**, both supporting efficient model serving and on-premise deployment.

## Publications

<b>Dec. 2021</b>	<b>“Deep Reinforcement Learning for Guidewire Navigation in Coronary Artery Phantom”</b> published in <a href="#">IEEE Access</a> Jihoon Kweon; Kyunghwan Kim; Chaehyuk Lee; Hwi Kwon; Jinwoo Park; Kyoseok Song
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## Patents

<b>Dec. 2022</b>	<b>[1] METHOD FOR AUTOMATING SEMICONDUCTOR DESIGN BASED ON ARTIFITIAL INTELLIGENCE;</b> 1024748560000 Jinwoo Park; Tod Myung; Jiyeon Lim; Kyeongmin Woo
<b>Jul. 2022</b>	<b>[2] METHOD FOR AUTOMATING SEMICONDUCTOR DESIGN BASED ON ARTIFITIAL INTELLIGENCE;</b> 1024200710000 Jinwoo Park; Tod Myung; Jiyeon Lim; Kyeongmin Woo

## Extra Activities

<b>Jan. 2022</b>	<b>MODUCON 22;</b> 나의 애자일 개발 문화 도입기: 스타트업을 여행하는 히치하이커를 위한 안내서
<b>Dec. 2021</b>	<b>DEVIEW 21;</b> 강화학습, 산업의 난제에 도전하다!: ASIC 반도체 설계(Floorplan) 자동화
<b>Sep. 2021</b>	<b>K-MOOC;</b> 강화학습의 수학적 기초와 알고리즘 이해 - 전문가 사례소개
<b>Aug. 2020</b>	<b>AI Grand Challenge 20;</b> Won first prize at Model Compression Track (200,000,000 Won)
<b>Nov. 2018</b>	<b>Convex Optimization for All E-book</b> published