Résumé: Jeayoung Jeon

MLOps/DevOps and AI Engineer (Updated at 2024-11-30)

NOTE

My name is Jeayoung Jeon [전제영], and I'm an MLOps engineer in Seoul, South Korea. I also specialize in:

- 🐳 Developing **MLOps (APIs, Pipelines)** and **AI/LLM Platforms** in cloud-native environments.
- 👷 Building **Hybrid Kubernetes Clusters** for **High Availability** and **GPU Cost Reduction**.
- 🏆 Contributing decisions for **MLOps/DevOps** using backgrounds in **ML, Computer Vision, Automotive**.

I'm always open to new challenges and opportunities for various fields including **Automotives** and **AI**. Please feel free to contact me. If you're looking for my professional experience and details, please see my **projects** (https://jyje.live/profile/projects) and **portfolio** (https://jyje.live/works) .

✉ : **jyjeon@outlook.com**

🏠 : **https://jyje.live**

in : **LinkedIn: jyje** (https://www.linkedin.com/in/jyje)

◯ : **Github** (http://github.com/jyje)

⧉ : **StackShare** (https://stackshare.io/jyje/jyje-pro-stack)

Work 🧰

Mar 2024 – Nov 2024 (9 Months)

👨‍💼 **Intermediate Software Engineer [책임연구원] at MAXST** (https://maxst.com/ENG/main)

Roles: Lead MLOps/DevOps Engineer at Technology Division, MAXST

- MLOps Developing ML APIs, data pipelines, and AI Platforms for research center using open sources.
- LLMOps Building chatbots using self-hosted RAG+LLM systems for internal documents.
- SRE Site reliability engineering for web services. Service reliability engineering for ML workloads.

Jan 2021 – Feb 2024 (3 Years and 2 Months)

👷 **Software Engineer [선임연구원] at MAXST** (https://maxst.com/ENG/main)

Roles: Associate Researcher and DevOps Engineer at Technology Division, MAXST

- Algorithm Research Reviewing computer vision algorithms in state-of-art papers and implementing prototypes
- Hybrid Clusters Building hybrid clusters with AWS EKS and on-premise Kubernetes for digital twin project
- DevOps Building on-premise clusters and data pipelines for company's inbound/outbound projects

Mar 2012 – Aug 2020 (8 Years and 6 Months)

👨‍🎓 **Graduate Student Researcher in Computer Vision at POSTECH** (https://eee.postech.ac.kr/)

Roles: Ph.D Integrated Student at Department of Electrical Engineering, POSTECH

- Computer Vision Research on hyperparameters for accurate and efficient computer vision algorithms
- Automotives Principal computer vision technologies for autonomous driving including ADAS and SLAM; Participated in the development of the Korean government's incubation projects with various ADAS researches
- FPGA Efficiently implemented computer vision and machine learning algorithms with real-time parallel matrix processing; SoC-type GPU/NPU accelerator

Education 🏛

Mar 2012 – Aug 2020

🎓 **Master's Degree (Integrated Program) in Department of Electrical Engineering, Signal Processing & Computer Vision from Pohang University of Science and Technology (POSTECH) with GPA of 3.2/4.3**

- Thesis: *Virtual Visual-SLAM for Real-World Environments, 2020*

Mar 2008 – Feb 2012

🎓 **Bachelor's Degree in School of Electronic Engineering, Electronic Communication from Kumoh National Institute of Technology (kit) with GPA of 4.3/4.5**

- Thesis: *A Study on a Visible Light Communication using LED in Under-water Environment, 2011*

Skills 🔧

NOTE

Highlighted items are specialized in industry-ready.

MLOps & LLMOps :

Ollama OpenAI API RAG AutoRAG
Kubeflow AutoML Katib Training Operator
JupyterHub Data Pipelines

DevOps & SRE :

Kubernetes On-Premise AWS EKS
GCP GKE Hybrid Clusters ARM64 IaC
Kubespray Terraform Ansible Istio
Grafana Stack Karpenter

CI/CD/CT/CT :

Argo Projects Bitbucket Pipelines
GitHub Actions Self-Hosted Runner Kaniko
Buildah Locust Litmus

ML Backend :

Python/FastAPI Ollama Milvus PostgreSQL
Redis

Computer Vision :

Automotives SLAM PyTorch OpenCV
FPGA

UI/UX :

Slackbot Python/FastUI .NET/MAUI
.NET/WPF Unity

FinOps & BizOps :

Kubecost Continuous BI

Programming languages :

Python .NET/C# C/C++ MATLAB

Awards 🏆

May 2014
🥇 **Altera Design Contest 2014, Excellence Prize** from **Intel-Altera Korea**
[System] FPGA, Vision-Based Driver Support Navigation System

May 2014
🥇 **Best Poster Session in Workshop** from **KYUTECH-POSTECH Joint Workshop**
[Poster] Iterative Polygon Detection using Harris Corner Space Method for Finding Traffic Signs

May 2013
🥈 **Altera Design Contest 2013, 2nd Prize** from **Intel-Altera Korea**
[System] FPGA, Vision-Based Traffic Sign Recognition System

Feb 2012
🥇 **Highest Honors in Undergraduate School** from **Kumoh National Institute of Technology**
[Summa Cum Laude] Highest Honors in Undergraduate Electronic Engineering School

Jan 2012
🥇 **NAVER Power KiN 2011** (https://m.site.naver.com/1y6qP) from **NAVER**
[Activity] Knowledge Export in `Electronics Engineering, Mathematics and Programming fields`. Active 2009-2011, Selected as a MVP in 2012 / Total number of answers 723, Selection ratio 98.1%

Publications 📖

> **NOTE**
> The full list of my publications are available on Google Scholar (https://scholar.google.com/citations?user=gwCPQM8AAAAJ&hl=ko) .

Jul 2020, POSTECH, Thesis (1st)
🎓 **Virtual Visual-SLAM for Real-World Environments** (http://postech.dcollection.net/common/orgView/200000341295) by **Jeayoung Jeon**

Nov 2014, ISVC, Advances in Visual Computing, 10th International Symposium (2nd)
📄 **Cost Aggregation Table: Cost Aggregation Method Using Summed Area Table Scheme for Dense Stereo Correspondence** (https://doi.org/10.1007/978-3-319-14249-4_78) by JeongMok Ha, **Jeayoung Jeon**, GiYeong Bae, SungYong Jo & Hong Jeong

Oct 2014, ICCAS, 14th International Conference on Control, Automation and Systems (1st)
📄 **Polygonal symmetry transform for detecting rectangular traffic signs** (https://doi.org/10.1109/ICCAS.2014.6987934) by **Jea Young Jeon**, JeongMok Ha, Sung Yong Jo, Gi Yeong Bae, Hong Jeong

Apr 2011, ICS-KIEE (1st, equivalent)
🎓 **A Study on a Visible Light Communication using LED in Under-water Environment** (https://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE01951197) by Daehee Lee, Ki-Sung Park, **Jea-Young Jeon**, Yeon-Mo Yang

Certifications ✔️

Nov 2024 (Expired in Nov 2027)
🐈 **GitHub Foundations** (https://www.credly.com/badges/876fa6b3-0b27-4ddf-bbb3-a9d853918566) from **GitHub**

Sep 2024 (Expired in Sep 2026)
🐙 **CAPA: Certified Argo Project Associate** (https://www.credly.com/badges/ee42c2c7-2ac3-411f-8713-cc26cbec8022) from **The Linux Foundation**

Jun 2024 (Expired in Jun 2026)
⎈ **CKAD: Certified Kubernetes Application Developer** (https://www.credly.com/badges/9e072a3a-57d0-403e-8bef-5831d618675c) from **The Linux Foundation**

Mar 2024 (Expired in Mar 2027)
⎈ **CKA: Certified Kubernetes Administrator** (https://www.credly.com/badges/d944bde7-222a-4ce5-b4e6-4e6c84df0ef8) from **The Linux Foundation**

Interests ❤️

DevOps Culture :
Coop First, Tech Next | Automate as Possible
Internal Development Platform

Cost Efficiency :
AMD-to-ARM Transition | Hybrid Clusters

Home Clusters :
Raspberry Pies | Personal RAG | Live Demo

Languages 💬

Korean : Native
English : Working Proficiency