Résumé: Jeayoung Jeon

MLOps/DevOps and AI Engineer (Updated at 2024-11-28)

NOTE

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

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

Based on my experience and achievements, I hope to have a career that grows with good team.
If you're looking for my professional experience and details, please see my **project portfolio** (https://jyje.live/profile/portfolio) .

✉ : **jyjeon@outlook.com**

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

🎓 : **Google Scholar: Jeayoung Jeon** (https://scholar.google.com/citations?user=gwCPQM8AAAAJ)

: **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 providing data pipelines for digital twins.

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. This is very early type of 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 :
FastAPI, Ollama, PostgreSQL, Milvus, 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`. For 2009-2011, as a knowledge volunteer, selected as a MVP in 2012 / Total number of answers 723, Selection ratio 98.1%

Publications

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, Thesis (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

Cost Efficiency :

AMD-to-ARM Transition | Hybrid Clusters

Home Clusters :

Raspberry Pies | Personal RAG | Live Demo

Languages

Korean :	Native
English :	Working Proficiency