

Résumé: Jeayoung Jeon

MLOps and Cloud-Native Engineer (Last modified at 2024-07-06)



SUMMARY

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

Currently, I'm working at **MAXST** as an **MLOps**, **DevOps**, and **Cloud-Native Software Engineer**. I also specialize in:

- Developing **Digital Twin Platforms** using **Cloud-Native APIs** and **ML pipelines**.
- Building **Hybrid Kubernetes Clusters** with **On-Premise** and **Public Cloud**.
- Creating **Team Services** to enhance productivity through **GitOps**, **ChatOps** and **MLOps**.
- Identifying best practices to bridge **team culture** and **new technologies**.
- Balancing **performance** and **cost reduction** optimally.

For more details, please visit my [portfolio \(https://jyje.live/profile\)](https://jyje.live/profile) OR [contact me \(mailto:jyjeon+contact@outlook.com\)](mailto:jyjeon+contact@outlook.com).

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in : [LinkedIn \(https://linkedin.com/in/jyje\)](https://linkedin.com/in/jyje)

GitHub : [Github \(http://github.com/jyje\)](http://github.com/jyje)

StackShare : [StackShare \(https://stackshare.io/jyje/jyje-pro-stack\)](https://stackshare.io/jyje/jyje-pro-stack)

Work



Mar 2024 – present

Project Widearth: Digital Twin Platform with AR/VR at MAXST (<https://maxst.com/en>)

SUMMARY

Project Widearth (<https://widearth.world>): Point-cloud-based spatial mapping platform for digital twins. I am responsible for the development of ML pipelines, APIs and Infrastructure:

- **ML Pipeline** Design ML data pipelines using Argo Workflows and Hera Python SDK.
- **API** Making endpoints for the ML pipeline inference based on Python FastAPI.
- **Infrastructure** Building hybrid clusters with AWS EKS and bare-metal Kubernetes to reduce costs but keep system reliabilities. Hybrid clusters can reduce public cloud costs by more than 50%.

Jan 2024 – present

MLOps Engineer at MAXST (<https://maxst.com/en>)

SUMMARY

Developed of on-premise clusters providing MLOps for Technology Division in MAXST.

- **AutoML** Making AutoML tuning hyperparameters with Katib and Argo Workflows without pre-build.
- **JupyterHub** Generating On-Demand JupyterNotebook to distribute resources for ML researchers.

Jan 2023 – Dec 2023

DevOps Engineer at MAXST (<https://maxst.com/en>)

SUMMARY

Developed hybrid clusters providing DevOps for the Technology Division at MAXST. Core projects were completed in 2023, but they are still being maintained and improved.

- **CI/CD** Designing Slackbot providing GitOps: Bitbucket Pipeline, Argo Workflows and Argo CD.
- **Hybrid K8s** Combining AWS EKS and On-Premise Kubernetes clusters to reduce costs and improve reliability.
- **On-Premise** Building bare-metal Kubernetes clusters using IaC tools such as Ansible and Kubespray.

Jan 2021 – Dec 2022

Computer Vison Engineer at MAXST (<https://maxst.com/en>)

SUMMARY

Developing computer vision algorithms for AR/VR and Digital Twin Systems.

- Visual-SLAM Research for Digital Twin Systems
- Developing ICP Algorithm to Align 3D Point Clouds

Jan 2012 – Aug 2020

Student Researcher with Integrated Program at POSTECH (<https://eee.postech.ac.kr/>)

SUMMARY

Studying and researching in the field of digital signal processing and computer vision. During my time as a graduate student at POSTECH, I had the privilege of working in several projects:

- **2018 - 2020** **Computing and Control Engineering Lab.**
 - Virtual Visual-SLAM for Real-World Environments (https://postech-primo.hosted.exlibrisgroup.com/permalink/ff/1031dvt/82POSTECH_INST21232402040003286)
- **2012 - 2018** **Advanced Signal Processing Lab.**
 - Stereo Vision Algorithms for Image Depth Estimation
 - Real-Time Advanced Driver Assistance Systems using FPGA
 - Lane Mark and Traffic Sign Detection
 - Automotive Online Calibration in Stereo Vision

Education & Experience

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

- Advanced Driver Assistance Systems (ADAS)
- Simultaneous Localization and Mapping (SLAM)
- Computer Vision Algorithms

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

- Advanced Digital Signal Processing
- Visual Light Communication
- Electronic Communication with Complex Analysis
- Finite Programmable Gate Array (FPGA)

Certifications

Mar 2024 (Expired in Mar 2027)

CKA: Certified Kubernetes Administrator (<https://www.credly.com/badges/d944bde7-222a-4ce5-b4e6-4e6c84df0ef8>) from The Linux Foundation

Jun 2024 (Expired in Jun 2026)

CKAD: Certified Kubernetes Administrator (<https://www.credly.com/badges/9e072a3a-57d0-403e-8bef-5831d618675c>) from The Linux Foundation

Skills

SUMMARY

Here are my skills and highlighted items are industry-ready. More details are available on [Stackshare](https://stackshare.io/fyje/fyje-pro-stack)

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MLOps & LLMOps :

- Kubeflow
- Data Pipeline
- AutoML Katib
- Training Operator
- JupyterHub
- PyTorch
- OpenCV
- Ollama
- RAG

DevOps :

- Kubernetes
- Argo Workflows
- IaC
- Ansible
- Terraform
- Kubespray
- Grafana
- Karpenter

GitOps :

- CI/CD
- Argo CD
- Bitbucket Pipelines
- GitHub Actions
- Kaniko
- Docker/Multi-stage
- Slackbot

Application Development :

- Python/FastAPI
- Unit Testing
- .NET/WPF
- .NET/MAUI
- Unity

Programming languages :

- Python
- Go
- C#
- C/C++
- MATLAB

Tools :

- Visual Studio Code
- Visual Studio
- Jupyter Notebook
- MATLAB/Simulink

OS and Hardware :

- Windows
- WSL2
- Ubuntu
- Alpine
- MacOS
- ARM64/Raspberry Pi
- AMD64/Bare Metal
- FPGA

Languages

- Korean : Native
- English : Working Proficiency