

# Résumé: Jeayoung Jeon

MLOps and Cloud-Native Engineer (Last modified at 2024-07-01)



## 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>) or contact me (<mailto:jyjeon+contact@outlook.com>).

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

GitHub (<http://github.com/jyje>)

StackShare (<https://stackshare.io/jyje/jyje-profile>)

## 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.

## Skills

### MLOps & LLMOps :

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

### DevOps :

Kubernetes Argo Workflows IaC  
Ansible Terraform Kubespray Grafana

### 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

Jan 2021 – Dec 2022

### Computer Vision 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/f/1031dvt/82POSTECH\\_INST21232402040003286](https://postech-primo.hosted.exlibrisgroup.com/permalink/f/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