

# Résumé: Jeayoung Jeon

MLOps and Cloud-Native Engineer (Last modified at 2024-06-29)



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

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

📄 : [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 2023 – present

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

### SUMMARY

Development of on-premise clusters providing DevOps and MLOps for Technology Division in MAXST:

- **AutoML** Making AutoML tuning hyperparameters with Katib and Argo Workflows without pre-build.
- **Data Lake** Storing pipeline results into storage and RDB. Visualizing with Grafana and Tensorboard.
- **JupyterHub** Generating On-Demand JupyterNotebook to distribute resources for ML researchers.
- **CI/CD** Designing Slackbot providing GitOps: Bitbucket Pipeline, Argo Workflows and Argo CD.
- **On-Premise** Building bare-metal Kubernetes clusters using IaC tools such as Ansible.

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

## Skills

### SUMMARY

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

### 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 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**

**Languages**



**Korean :** Native  
**English :** Working Proficiency