Résumé: Jeayoung Jeon1

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

SUMMARY

My name is Jeayoung Jeon [10] 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:

- Reveloping Digital Twin Platforms using Cloud-Native APIs and ML pipelines.
- Building Hybrid Kubernetes Clusters with On-Premise and Public Cloud.
- Section Community
 Creating Team Services to enhance productivity through GitOps, ChatOps and MLOps.
- A Identifying best practices to bridge team culture and new technologies.
- M 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) .

Q: Anyang & Seoul, South Korea

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

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

StackShare (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 prebuild.
- [JupyterHub] Generating On-Demand JupyterNotebook to distribute resources for ML researchers.

Jan 2023 – Dec 2023

$\textbf{DevOps Engineer at } \underline{\textbf{MAXST}}_{(https://maxst.com/en)}$

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.



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

UMMARY

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://postechprimo.hosted.exlibrisgroup.com/permalink/f/1031dvf/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)

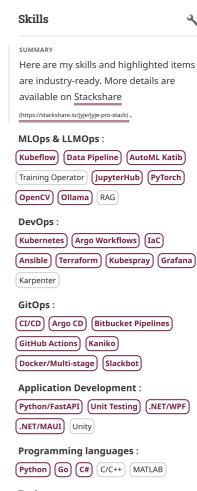
Certifications

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



Tools:

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Visual Studio Code Visual Studio

Jupyter Notebook MATLAB/Simulink

OS and Hardware :

Windows WSL2 (Ubuntu) (Alpine MacOS) (ARM64/Raspberry Pi)

AMD64/Bare Metal) (FPGA)



Korean:

Native

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English: Working Proficiency