Résumé: Jeayoung Jeon

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:

- 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.

From my experience and achievements, I hope to have a good career. For more details, please visit my **career description** (https://jyje.live/profile/cd) or **CV** (https://jyje.live/profile/cv).

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

SIIMMARY

Skills

Here are my skills and highlighted items

are industry-ready.

MLOps & LLMOps :

(Kubeflow) (Data Pipeline) (AutoML Katib)

Training Operator JupyterHub PyTorch

OpenCV Ollama RAG

DevOps:

 (Kubernetes)
 (Argo Workflows)
 (AWS EKS)

 (Kubespray)
 (IaC)
 (Terraform)
 (Ansible)

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

Mar 2024 - present

SUMMARY

Project Widearth and a second point cloud based spatial mapping platform for digital twins. I se

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.

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

- (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.
- (Distributed ML) Developing distributed learning environments using Kubeflow Training Operator.

Jan 2023 - Dec 2023

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

SUMMARY

Developed hybrid clusters providing DevOps for the Technology Division at MAXST.

- **(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)

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. (Prof. SH, Han)
 - Thesis: Virtual Visual-SLAM for Real-World Environments (https://postechprimo.hosted.exlibrisgroup.com/permalink/f/1031dvf/82POSTECH_INST21232402040003286)
 - Visual-SLAM for Multiple Cameras
- 2012 2018 Advanced Signal Processing Lab. (Prod. H, Jeong)
 - 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

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

Certifications



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

Languages



Korean : Native
English : Working Proficiency