

Jinhyeong Seo
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Work Experience

Scatter Lab (Pingpong)

Aug 2018 – Sep 2020

Backend Software Engineer

- Developed features and managed service for Luda (<https://luda.ai>), AI Social Friendly Chatbot
 - Built reply candidates server using Elasticsearch and developed retrieval system
 - Built token based indexes in master/data nodes on EC2 SSD instances with proper shards
 - Built embedding database of which size > 3TB for cache using MongoDB
 - Worked migrating whole services from AWS EC2 to Kubernetes system (AWS EKS)
 - Dockerized and built CI system using CircleCI, Github Actions with self-hosted and AWS ECR
- Built data pipelines and analytics system using Stackdriver, BigQuery, Data Studio and Airflow
 - Wrote BigQuery queries for stats and used Github actions to synchronize BigQuery views
 - Built Airflow for batch jobs to backup, to predict conversation satisfactions
 - Regression for scoring using statistical features of model outputs, queries and replies
- Developed features and managed service for Pingpong Builder, B2B AI Chatbot builder
 - Dockerized and built CI system using CircleCI
 - Packaging whole services for on-premise system (HAI, Hana Bank) using docker compose
 - Managed web pages based on React (<https://builder.pingpong.us>)
 - Developed whole services of Pingpong Japanese Demo (<https://pingpong.us/jp>)
 - React based web page, Handler using Lambda, and Flask with PyTorch using Fargate
- Optimized model codes and made RESTful API servers using Flask
 - Profiled codes and modified to remove bottlenecks (ex. use comprehensions, add caches)
 - Built CI system using Jenkins and AWS ECR
- Managing internal training servers
 - Set up required packages (CUDA, virtualenv, Jupyterhub, nvidia, ...) and maintained servers
 - Managed users of which uid/gid are same between servers, built NAS with proper permissions

Technical Skills

Languages: Python, Java, Javascript (Typescript)

Frameworks / Libraries: Docker, Spring (boot), Flask, Django, React.js

Cloud Components: AWS (EC2, EKS, Lambda, Fargate,...), GCP (BigQuery, Data Studio, Stackdriver)

Others: Docker, Kubernetes, Github Actions, CircleCI, Jenkins, Zappa, Docker Compose

Education

Seoul National University

Mar 2014 – Present

Dept. of Computer Science and Engineering

Posts

(Posts below are written during working in pingpong)

- <https://blog.pingpong.us/ml-model-optimize/>
 - Contributed to cloud support, optimizing computations
- <https://blog.pingpong.us/kubernetes-in-pingpong/>
 - Contributed to building Continuous Delivery System, setting Kubernetes
- <https://blog.pingpong.us/chatbot-data-pipeline/>
 - Contributed to building data pipelines, making queries, and managing by Github with actions