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Work Experience

Daangn Market (Karrot)   Jan 2021 – Present
Machine Learning Software Engineer

- Developing Feature Platform, which aims to handle over 100K req/s with under P99 5ms.
- Developed and maintained recommend-engine which serves all recommendations in Karrot, handles over 7K req/s on peak time.
  - Participated in system design, and developed as the 1st contributor.
  - How recommendations work is controlled by prototext file without server deployment.
  - Designed and developed integration with in-house experimentation platform, to support dynamic allocation to each experiment, and layering.
- Designed and developed an in-house vector search server using Milvus V1.
  - Handles over 150M vectors and more than 1.5M vectors are added everyday that can be searched in near real time by splitting long-term and short-term indexes.

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 retrieval-based reply candidates server using Elasticsearch and MongoDB
    - Built token based indexes in master/data nodes on EC2 SSD instances with proper shards
    - Built embedding database of which size > 3TB 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
- Developed features and managed service for Pingpong Builder, B2B AI Chatbot builder
- Developed and optimized model inference servers using Flask

Technical Skills

Languages: Go, Python, Java
Frameworks / Libraries: Familiar with Lambda architecture

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

Education

Seoul National University   Mar 2014 – Aug 2021
Dept. of Computer Science and Engineering

Side Projects

- musn129, which gathers stock news and summarizes why it goes up and down via ChatGPT.
  - Using AWS Lambda and Cloudfront (SSR web pages via NextJS), costs near zero except for ChatGPT API pricing.