

Yongeun Cho

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EDUCATION

Stony Brook University

M.S. in Data Science — CV Lab - Professor. Zhaozheng Yin

New York, USA

Expected Graduation : 2027

Sookmyung Women's University

B.S. in IT Engineering

Seoul, Republic of Korea

Mar 2020 – Aug 2024

SELECTED PROJECT

Medical Image Segmentation with Vision Foundation Models (Ongoing)

Jan 2026 – Present

ML Engineer — Stony Brook CV Lab

Stony Brook, NY

- Benchmarking zero-shot SAM on Kvasir-SEG and NCI-ISBI to quantify medical domain shift.
- Developing gaze-informed prompting strategies under weak supervision settings.

Face Anonymization using Diffusion Models

Mar 2025

ML Researcher

Seoul, Republic of Korea

- Reduced diffusion inference time by 53% (18.6s to 8.7s) via identity-exclusion and hyperparameter tuning.
- Established evaluation pipeline using Re-ID and FID metrics to assess privacy-utility tradeoffs.
- Deployed identity-exclusion logic to minimize privacy risks while preserving facial attributes.
- Won **2nd Prize** at Google ML Bootcamp (KSTA/NIPA) for technical innovation.

Real-time Vision System for Assistive Shopping

Mar 2024 – May 2024

Team Leader, Backend and ML Developer

Seoul, Republic of Korea

- Built YOLOv8-based object detection system optimized for cluttered grocery environments, achieving **83%** accuracy through data refinement and augmentation strategies.
- Optimized Flask+AWS inference pipeline for < 1s latency in product identification.
- Deployed MediaPipe gesture recognition with audio feedback for hands-free accessibility and won **2nd place** in IPS AI Competition for CV-based accessibility solutions.

WORK EXPERIENCE

Software Engineering Intern

Aug 2024 – Sep 2024

Mand.ro

Incheon, Republic of Korea

- Optimized real-time EMG visualization for prosthetic control, reducing latency to < 1s by migrating from Matplotlib to OpenCV.
- Enhanced HMI responsiveness for assistive robotics by streamlining signal-to-visual data flow.

Backend Developer

Feb 2024 – Aug 2024

Snowrose Reorganization Task Force Team

Seoul, Republic of Korea

- Designed scalable backend APIs serving 1700+ DAU and improved database query performance by 30%.

CONFERENCE PRESENTATIONS

Y.E. Cho, J.W. Lee, “Real-time Shopping Assistant for the Visually Impaired,” Proceedings of the 2024 Korean Entertainment Media Society Fall Conference, Vol. 27, No. 2, Seoul, Korea.

Y.E. Cho, J.W. Lee, “A Study on Drug Interaction and Side Effect Prevention”, Presented at the 2024 Korea Digital Content Society Summer Conference, Seoul, Republic of Korea, July 2024.

SKILLS

Machine Learning & Vision: PyTorch, TensorFlow, Diffusion Models, SAM, YOLOv5/v8, OpenCV, MediaPipe

Foundation Models & LLM Tools: Hugging Face, LangChain, REST APIs for LLM deployment

Backend & Deployment: Flask, FastAPI, Spring Boot, Docker, AWS, GCP, Git

Languages: Python, Java, C++, SQL, C