

Sooyong Shin

📍 Daejeon, South Korea ✉ exceldra5@gmail.com in exceldra5 🌐 exceldra5

Interest

I am interested in **Computer Vision Systems** for **Robot** perception, with a particular focus on **Visual SLAM**. Also interested in **Vision Language Navigation**, leveraging **Multimodal models** for more intuitive and efficient communication.

Currently, I am working as a Research Intern at KC-ML2, addressing specific relocalization challenges within Visual SLAM.

Keywords: Robotics, Visual SLAM, Vision Language Models

Education

Korea Advanced Institute of Science and Technology
Bachelor of Science, Electrical Engineering, and Computer Science

Daejeon, South Korea
Feb 2018 – Present

Work Experience

KC-ML2

Research Intern

Seoul, South Korea

Aug 2024 – Feb 2025

- Research on **Relocalization for Robot Mapping**
- Focused on tracking recovery in monocular **Visual SLAM** using filtered text observations
- Skills: C++, Python, ORB SLAM, YOLO, Paddle OCR

Bookend

Software Engineer

Daejeon, South Korea

Dec 2022 – Feb 2023

- Developed **Sentensify** [🔗](#) ([chrome webstore](#) [🔗](#)), a multilingual AI writing and paraphrasing tool leveraging various **Large Language Models**
- Role: Full-Stack Engineer
- Skills: JavaScript(React), Python(FastAPI), MongoDB, ChatGPT API

Software Engineering Intern

May 2023 – Aug 2024

- Developed **TYPHERE**, a writer-publisher **mobile platform** designed to streamline and enhance the book publishing process
- Role: Front-End Engineer
- Skills: JavaScript(React-Native)

Projects

KAIST Swimming Team KAORI Webpage

2024

- Developed a webpage to archive swimming records and member information, enabling analysis of performance trends and data distribution (www.kaist-kaori.org [🔗](#))
- Role: Full-Stack developer
- Skills: JavaScript(React), Python(Fast API), MongoDB

Skills

Languages: JavaScript(TypeScript), Python, C++

Library/Framework: PyTorch

Frontend: React/React-Native, HTML, CSS


Backend: FastAPI, Express

Database: MongoDB, MySQL

Tools: Linux (Ubuntu), Git, Slack, Jira, Confluence

Leadership Experience

AI Robotics KR

Community Manager  

South Korea

Oct 2024 – Present

Republic of Korea Army

Sergeant, honorable discharge

Paju, South Korea

Mar 2019 – Nov 2020

Korean Red Cross Lifeguard

Daejeon, South Korea

Aug 2018 – Present

KASIT Swimming Team KAORI

Senior member

Daejeon, South Korea

Mar 2018 – Present

President of KAORI

2022

Chairman of KAIST Swimming Competition

2023