

# Sooyong Shin

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## Interest

I am interested in **Computer Vision Systems** for **Robot** perception, with a particular focus on **Visual SLAM**. Also interested in **Human-Robot Interaction**, 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, Multimodal HRI

## 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

Seoul, South Korea

Research Intern

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

Daejeon, South Korea

Software Engineer

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](http://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

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### 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