

Seung-Gu Lee

Passionate computer science student with various project experience and well-developed teamwork skills seeking for a software engineering internship for Summer 2024.

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Portfolio: <https://sgl.dev/>

Education

University of Michigan - Ann Arbor, MI

May 2025

Bachelor of Science in Engineering (B.S.E) in Computer Science

- Cumulative GPA: 3.84 / 4.0
- Minor in Civil Engineering - Mobility Systems Engineering track
- **Relevant Coursework:** Data Structures & Algorithms, Computer Vision, Intro to Computer Security, CS Pragmatics, Robotics Mechanisms, Differential Equations, Linear Algebra

Skills

Languages: C++, JavaScript, Swift, Java, Python, HTML, CSS, SQL, Bash

Platforms/Framework: SwiftUI, React, Node.js, Flutter, Firebase, Unity, Arduino

Tools: Git/Github, Unix, Linux, AWS (EC2), Notion, LaTeX

Interpersonal: Teamwork, Communication, Leadership, Listening, Problem-solving, Fast-learner

Work Experience

Dynamic Project Management (DPM) Lab - Ann Arbor, MI

Apr. 2023 - present

Research Intern

- Worked with a team of researchers at the DPM lab and the Liberty Mutual Group to study real-time risk sharing for preventative job safety in the construction workplace
- Developed an **iOS** application using **Swift** that integrates a machine learning algorithm to automatically collect data from IMU sensors when walking, detect fall risks, and prompt live feedback to help users walk safely
- Optimized data storage on **Firebase** database to assist researchers with efficiently analyzing the collected data

DesignOC - Seoul, S. Korea

Jun. 2020 - Jul. 2020

Web Development Intern

- Maintained/upgraded the company website using **HTML**, **CSS**, and **JavaScript** and increased visibility on search engines
- Collaborated with other engineers and employees to meet deadlines, ensuring information to be up-to-date

Project Experience

Maize & Blue Cupboard App - Team Project: Tech for Social Good

Sep. 2022 - present

- Developed a cross-platform mobile application for Maize and Blue Cupboard with **Flutter** and **Firebase** to help with the university food bank to reach to more people in need

KAMS Hub - Independent Project

Nov. 2021 - May 2022

- Developed an online learning management system for the school with **HTML**, **CSS**, **JavaScript**, **Java Web**, and **MySQL** with an aim to automate redundant tasks and improve administrative efficiency, and deployed the application on **AWS EC2 Linux (Ubuntu)** instance

Hexagon Defense - Independent Project

Feb. 2020 - Jun. 2021

- Designed and programmed the video game with **Unity/C#**, incorporating third-party APIs and SDKs
- Communicated with various companies to publish the completed game on **Nintendo Switch** and **Google Play**, reaching to over 1,000 unique users in the first month of release

Activities

- Tech for Social Good - *Member* Sep. 2022 - present
- Michigan Hackers - *Member* Sep. 2022 - present
- Anthro Art Association - *Member* Apr. 2023 - present
- KAMS Vex Robotics Team - *Programmer / CAD designer* Jan. 2022 - May 2022
- Custer Hall Council - *Programming Chair* Sep. 2020 - May 2022