

# Seung-Gu Lee

Passionate computer science student with over 8 years of programming experience and well-developed teamwork skills seeking for a software engineering internship for Summer 2024.

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

Github: <https://github.com/sgl33>

## 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

## Technical Skills

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

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

**Tools:** Git/Github, Unix, Linux, LaTeX

## Work Experience

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

Apr. 2023 - present

*Research Assistant*

- Developed an iOS frontend application using **Swift** and **Firebase** that automatically collects data from external IMU sensors when walking, detects fall risks, and prompts live feedback integrating **Agile** methodology
- Developed the **Node.js** backend using **Express.js** and deployed it on an **Ubuntu** server on **GCP** to run machine learning models, send remote push notifications, and more
- Improved an existing iOS application, addressing bugs, redesigning user experience, and adding new features and created an admin-side web panel with **React**
- Led meetings with researchers at DPM Lab and Liberty Mutual Insurance to discuss progress and deployed apps on TestFlight utilizing **CI/CD** pipelines
- Developed web scrapers and data processors with **Python** to create training datasets for the **computer vision** model and assisted researchers with training the AI model, won 1st place in national ASCE datathon 2023

**DesignOC** - Remote

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 to assist with automating repetitive tasks

## Project Experience

**KAMS Hub** - Independent Project

Nov. 2021 - May 2022

- Created an online learning management system for the school with **HTML**, **CSS**, **JavaScript**, **Java**, and **MySQL** and deployed the application on an **Ubuntu** server on **AWS**
- Improved administrative efficiency by saving over 2 hours per week of repetitive manual work

**Hexagon Defense** - Independent Project

Feb. 2020 - Jun. 2021

- Designed and programmed the video game with **Unity** and **C#**, incorporating third-party APIs and SDKs
- Communicated with professional identities and government authorities to publish 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