

# MINWOO LEE

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Highly motivated Computer Science graduate bringing over a year of practical experience from academic and personal projects and internship in full-stack development (Django, React), machine learning (KNN image classification using Python/NumPy), Android app development (Android Studio, Firebase), and Python scripting for cybersecurity applications (PLC network stress testing). Seeking a challenging Software Developer position to leverage these skills and contribute to innovative projects within a collaborative team environment.

## EXPERIENCE

### Yellosis

Seoul, South Korea

*A health-tech startup developing at-home diagnostic test kits for pets using a mobile app for AI-powered analysis.*

Machine Learning & Data Science Intern

Jun 2024 – Aug 2024

- Expanded the diagnostic capabilities of a prototype urinalysis platform by developing and training K-Nearest Neighbors (KNN) models in Python to double the number of analyzable tests from 5 to 10.
- Engineered the feature extraction process for the 10-test prototype by analyzing and applying RGB color values from test strip images to ensure high model accuracy.
- Conducted validation testing on 10-test prototype, achieving 90% accuracy on a sample dataset and confirming the model's viability for future product development.

### Core Security

Seoul, South Korea

*A specialized cybersecurity provider focused on protecting industrial networks and critical infrastructure systems.*

Cybersecurity Intern

Apr 2024 – Jun 2024

- Developed a suite of Python scripts to test Programmable Logic Controller (PLC) robustness against network anomalies (e.g., ARP Request Storm, UDP Multicast Storm), targeting the rigorous criteria of Achilles Level1, an industry-recognized cybersecurity standard for industrial devices.
- Facilitated technical discussions with General Electric (GE) by providing real-time translation of regulatory and engineering details during meetings regarding the purchase of specialized certification hardware.

### Mothers Against Gun Violence Milwaukee

Milwaukee, WI

*A non-profit organization focused on preventing gun violence through community action, education, and support for affected families.*

Web Development & Analytics Intern (Nonprofit-IT Community Project, UWM)

Jan 2025 – May 2025

- Established and configured Google Analytics 4 on the organization's website, enabling systematic tracking of user activity critical for meeting federal funding data requirements.
- Implemented a scalable solution for the organization to announce, manage, and track participation for both online and offline events by designing and launching a dedicated events page on their WordPress website, with integrated participant information capture.
- Empowered the organization's founder to independently manage their website's event listings and analytics by developing a comprehensive user manual and delivering personalized training on updating event content via WordPress and utilizing Google Analytics 4 for report generation and performance tracking.

## PROJECTS

### UWM StudyRadar

Jan 2025 – May 2025

*Capstone project creating a university-exclusive platform for students to form study groups around specific courses and academic topics (e.g., exams, assignments, lectures).*

- Developed a full-stack web application using Django (backend) and React (frontend), implementing core features like creating, joining, and managing study groups and events.
- Integrated AWS RDS to establish a real-time database for storing and managing user, group, and event data in collaboration with teammates.
- Provided technical leadership by contributing key design ideas for feature development, mentoring teammates, and providing hands-on support with backend/frontend integration and troubleshooting.

### 4000 weeks

May 2023 – Dec 2023

*An Android application designed to reframe memory-keeping, allowing users to build a visual timeline of their life with one meaningful photo per week.*

- Built the application from the ground up using Java in Android Studio, creating the core user interface for weekly photo uploads, timeline viewing, and user interactions.
- Configured Firebase services, including Authentication for secure user management and real time database/storage for handling image uploads and data.
- Improved application stability and performance by conducting iterative testing, debugging code, and systematically incorporating user feedback to resolve bugs and enhance features.

### Course Management Platform

Jan 2022 – May 2022

*A course project to build a centralized web platform for managing academic courses, labs, and user roles (Professor, TA, Student).*

- Architected and built a course management platform from scratch using Python, Django, and HTML, designing a system with role-based permissions for three distinct user types.
- Implemented core administrative features including secure user authentication, course creation, student enrollment, and TA assignment, leveraging Django's built-in security protections against common web vulnerabilities (e.g., XSS).

## EDUCATION

**University of Wisconsin Milwaukee**

**Milwaukee, WI**

*Bachelor of Science in Computer Science*

May 2025

- Activities: Institute of Electrical and Electronic Engineers, Asian Student Union
- Awards: Magna Cum Laude, Dean's Honors List (6 semesters)
- Related coursework

Introduction to Artificial Intelligence	Algorithm Design and Analysis
Computer Architecture	Data Structures and Algorithms
Discrete Information Structures	System Programming