

Ellexandrei Esponilla

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<https://github.com/xandreiATHome>

Education

De La Salle University Manila **2401, Taft Ave**
BS Computer Science Major in Software Technology - GPA 3.549 Expected Graduation Date - 2027

Centro Escolar Integrated School Manila **1008, Mediola St.**
STEM - Graduated with High Honors June 26, 2023

Leadership & Activities

La Salle Computer Society **2401, Taft Ave**
Frontend Developer 2024 -2025

- Developed the frontend for the CMS system for the organization.
- Organized the tech stack for the frontend development of the R&D committee.
- Senior Frontend Developer for multiple inter-organization projects.

Google Developer Group on Campus **2401, Taft Ave**
Backend Developer 2024-2024

- Helped develop the backend infrastructure for the GDGoC Main Website.

Blue Hacks Hackathon **Ateneo De Manila University**
February 22, 2025

- Participated in the 24-hour Blue Hacks Hackathon of the Computer Society of Ateneo.
- Developed an emergency response mobile application for first responders to immediately be alerted of emergencies in a map-like interface.

CS50x - Introduction to Computer Science (Online Course) **Harvard University**
2022 - 2024

- Learned the fundamentals of C, data structures, SQL, Python, and web development.
- Developed an Attendance Tracker mobile application for the final project.

Experience & Projects

TrOCR Fine Tuning Commissioned Project

- Commissioned by a senior high research group to fine-tune the microsoft/trocr base model using PyTorch to recognize doctors' handwriting and use the model to display the result using the Python OpenCV and tkinter GUI.
- Faced difficulty in decreasing the character error rate of the fine-tuned model.

Attendance Tracker Mobile App

- Developed an Android application used for tracking the attendance of students using QR codes.
- Used React Native, Expo SDK, and SQLite to develop the project.

lasallian.me (CCAPDEV MCO)

- Worked with a group to develop a full-stack web app similar to a LinkedIn-style social media platform
- Mainly developed the frontend infrastructure of the project.
- Developed using React Router V7, ExpressJS, NodeJS, MongoDB

Sokoban Solution Algorithm (CSINTSY MCO)

- Organized the group's workflow to facilitate ease of contribution to the codebase.
- Developed the state representation of the Sokoban and increased the performance of the code by optimizing the used data structures and implementing a deadlock state function to shorten the time it takes for the algorithm to think of a solution.
- Developed in Java

Skills & Interests

Technical: React, React Native, NextJS, NodeJS, Flask, Python, Java, C

Language: Fluent in English, Filipino, and Waray

Interests: Astronomy, Space Observation, Manga, Novels