

Francis Miguel Rabulan

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EDUCATION

UNIVERSITY OF THE PHILIPPINES LOS BAÑOS

Bachelor of Science in Computer Science.

DOST-SEI Undergraduate Merit Scholar.

Los Baños, Laguna

August 2024 - Present

SAN PABLO CITY SCIENCE INTEGRATED HIGH SCHOOL

STEM Strand. With High Honors.

San Pablo City, Laguna

May 2024

PROJECTS

SHARED SPACE

Los Baños, Laguna

Art-Sharing Platform

January 2026

- Contributed to building a MERN-based web application with integrated gamified mechanics for user interaction.
- Handled several front-end components and pages, focusing on visual consistency and seamlessness.

TERAGARDEN

Los Baños, Laguna

Game-Based Inventory Management System

December 2025

- Helped develop an inventory manager using Java and JavaFX, implementing persistence for account states.
- Stylized a pixel-themed interface using CSS, enhancing visual appeal and promoting engagement.

GREENVALE MITIGATION PROJECT OPTIMIZER

Los Baños, Laguna

Pollutant Target and Cost-Minimizing Calculator

December 2025

- Created a Shiny-based optimization tool in R using the Simplex Method for 10 pollutants and 30 mitigators.
- Designed a user-friendly interface with HTML and CSS for easy use, navigation, and accessibility.

FIERO

San Pablo City, Laguna

Automated Fire-Fighting Assistant Robot

May 2024

- Collaborated in developing a mobile, C++-based robot, reliably detecting fires within 0.5 meters.
- Tested its functionality, extinguishing fires within 1 minute and sending SMS notifications within 7 seconds.

LEADERSHIP AND ACTIVITIES

YOUNG SOFTWARE ENGINEERS' SOCIETY

Los Baños, Laguna

Resident Member

September 2025 - Present

- Handles academic matters as a member of the Scholastics Department.
- Was part of the front-end team of a group project as a Junior Projects and Activities Department member.

UP MODEL UNITED NATIONS

Los Baños, Laguna

Resident Member

October 2024 - Present

- Served as the rapporteur during general assemblies.
- Managed logistics as part of the Secretariat Committee during the 2024 UP MUN Simulation.

ACHIEVEMENTS

TOP CAS STUDENT (SOPHOMORE) - B.S. COMPUTER SCIENCE

Los Baños, Laguna

University of the Philippines Los Baños

December 2025

TOP 1 FRESHMAN - B.S. COMPUTER SCIENCE

Los Baños, Laguna

University of the Philippines Los Baños

1st Semester, A.Y. 2024-25

1500 TOTAL SCORE (720 READING, 780 MATH)

Muntinlupa, Metro Manila

Scholastic Aptitude Test

November 2023

TECHNICAL SKILLS

Languages: Python, C, Java, R, HTML, CSS, JavaScript.

Tools and Software: Google Workspace, Microsoft Office, Visual Studio Code, Eclipse, RStudio, Shiny, GitHub.