

# 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

#### Art-Sharing Platform

- 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.

Los Baños, Laguna

January 2026

### TERAGARDEN

#### Game-Based Inventory Management System

- 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.

Los Baños, Laguna

December 2025

### GREENVALE MITIGATION PROJECT OPTIMIZER

#### Pollutant Target and Cost-Minimizing Calculator

- 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.

Los Baños, Laguna

December 2025

### FIERO

#### Automated Fire-Fighting Assistant Robot

- 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.

San Pablo City, Laguna

May 2024

## LEADERSHIP AND ACTIVITIES

### YOUNG SOFTWARE ENGINEERS' SOCIETY

#### Resident Member

- 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.

Los Baños, Laguna

September 2025 - Present

### UP MODEL UNITED NATIONS

#### Resident Member

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

Los Baños, Laguna

October 2024 - Present

## ACHIEVEMENTS

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

University of the Philippines Los Baños

Los Baños, Laguna

December 2025

### TOP 1 FRESHMAN - B.S. COMPUTER SCIENCE

University of the Philippines Los Baños

Los Baños, Laguna

1st Semester, A.Y. 2024-25

### 1500 TOTAL SCORE (720 READING, 780 MATH)

Scholastic Aptitude Test

Muntinlupa, Metro Manila

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.