

# RAFAEL MENDOZA

spongebobrafael@gmail.com

Bachelor of Science in Computer Science  
Cebu Institute of Technology - University (CIT-U)  
N. Bacalso Avenue in Cebu City

## PROJECTS

---

### QR Genie

A Java-based tool for batch QR code generation. Automated the creation of QR codes from Excel input and integrated them seamlessly onto reference images. Designed for batch ticket production, significantly reducing manual work and improving efficiency in large-scale QR code printing. Successfully deployed to automate the digital ticketing for registrants at the CIT University College of Computer Studies (CCS) Acquaintance Party 2024.

### AIO Stubu

An All-In-One (AIO) Study Buddy (Stubu) desktop app. It is an offline-first productivity desktop application for Windows that equips students with essential study tools in one platform. The app features a Pomodoro timer for focused study sessions, flashcards for knowledge reinforcement, a calendar (RFC 2445-compliant) for scheduling deadlines, a to-do list for task tracking, and HTML-formatted notes for flexible documentation. Built with Java and JavaFX, the app provides a seamless and user-friendly interface tailored to student needs. Created as a capstone project for CSIT227 - Object-Oriented Programming 1.

### FinishLine

A JavaFX educational typing game. It is a school-based typing game that improves typing proficiency while reinforcing Computer Science concepts. Features progressive difficulty, scoring system, high score tracking, boss fights, and a leaderboard. Implemented using JavaFX, with MySQL database integration via JDBC and deployment on XAMPP. Applied software design patterns to structure gameplay logic and ensure maintainable code architecture. Built as a capstone project for CSIT228 - Object-Oriented Programming 2.

### BuzyPC

An AI-powered Android app in Kotlin that generates optimized PC builds based on user budget. Evaluates build performance across six domains: Processor Power, Graphics, Memory Speed, Power Efficiency, and Storage. Features include build tracking and integration with shops for component sourcing. Built as a project for CSIT284 - Platform-based Development 3 (Mobile).

### Sustaina

An AI-powered sustainability platform. It is a real-time platform developed during the Komsai Week 2025 Hackathon that crowdsources and visualizes environmental issues through an interactive map with AI-based trash detection and cleanup verification. Implemented computer vision models (TensorFlow,

YOLO11) to classify waste, estimate density, and verify cleaned areas with before-and-after analysis. Integrated gamification systems (XP, badges, eco-coins) to boost community engagement, with potential for real-world incentives. Enabled community cleanup events and GPS-based reporting to foster collaboration and large-scale sustainability initiatives. Developed with Kotlin (Jetpack Compose) frontend and Firebase backend (Auth + real-time updates).

## FeelNeets

A web platform that hosts and organizes PhilNITS reviewer questionnaires and answer sheets. Implemented with Blazor WebAssembly to explore modern .NET web development. Designed for easy browsing of reviewer materials, streamlining access for exam takers. Completed as a weekend project, focusing on rapid prototyping and experimentation with new frameworks.

## SEMINARS, CERTIFICATES & ACTIVITIES

---

### Seminars Attended

“AWS Community Day Cebu”, held at Golden Prince Hotel and Suites (2023)  
“Cebu Hacktoberfest 2023”, held at Crossroads Mall (2023)  
“SurfBARD Lessons: LLM Basics”, held at enspace Cebu (2023)  
“DevFest Cebu 2024”, held at Seda Hotel (2024)  
“Cebu Blockchain Conference”, held at IC3 Convention Center (2025)

### Certificates

C Programming Certification (Silver) - CodeChum (2024)  
College Scholar (Rank 3) - CIT University (2024)  
FlexiblIT 3.0 - Top 1st Year BSCS Student (Rank 5) - CIT University (2024)  
Presidential Scholar - CIT University Parangal (2024)  
College Scholar (Rank 19) - CIT University (2025)  
Java Object-Oriented Programming (Silver) - CodeChum (2025)  
FlexiblIT 4.0 - Top 2nd Year BSCS Student (Rank 6) - CIT University (2025)

### Extra-Curriculars

CIT University - Computer Students' Society 2324  
Committee on Documentation, Secretary

CIT University - Computer Student's Society 2324  
Committee on Documentation, Acting Assistant Head

CIT University - Computer Student's Society 2425  
Executive Secretary

CIT University - Computer Student's Society 2526  
Vice President for Internal Affairs

### Others

Project Coordinator, CSS2425 CSS Tutorials 5.0 (January 2025)  
Project Coordinator, CSS2526 CCS Acquaintance Party (August 2025)  
Pioneering Competitor, Mactan International Airport CEB-I Hacks (2025)