

Iguban, Mark Daniel R.

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EDUCATION

Cavite State University

Bachelor of Science in Computer Science

Indang, Cavite

Sep 2022 – Aug 2026

Cavite State University

Senior High School

Indang, Cavite

2020 - 2022

PROJECT EXPERIENCE

Frozen Shoulder Rehabilitation Decision Support System

Dec 2025 – May 2026

Python, OpenCV, MediaPipe, NumPy, Tkinter, Pandas, Matplotlib, ReportLab, Git

- Developed a CPU-only rehabilitation decision-support system using MediaPipe and OpenCV to track shoulder flexion and abduction, segment repetitions, measure ROM, and detect trunk lean and shoulder hiking in real time.
- Engineered confidence-weighted landmark smoothing, bone-length reliability checks, Mamdani fuzzy deterioration alerts, and auditable CSV/PDF reports; evaluated outputs against 386 physical therapist-matched repetitions.

GYG Management: Project Management System for GYG Power Systems Inc.

July 2025 – August 2025

Next.js, React, Tailwind CSS, Supabase, Firebase, Typescript, ESLint, Figma, Git

- Built full-stack project management system using Next.js, TypeScript, and Supabase serving 10+ engineers with real-time collaboration, task tracking, file management, and automated reporting - reducing project coordination time by 75%.
- Developed comprehensive export system generating structured reports with project analytics and technical documentation.
- Effectively architected scalable database optimization strategy reducing API calls by 40-50% through query batching.

Resource Hive: Room Reservation System for School (IT) Department

September 2024 – Jan 2025

HTML, Javascript, Bootstrap, CSS, Firebase, Figma, Git

- Developed a web-based platform enabling faculty to search, reserve, and manage classroom and lab bookings efficiently.
- Integrated real-time room availability, floor maps, and user authentication to streamline scheduling and reduce conflicts.
- Provided administrative tools for user management, analytics, and reservation history, supporting data-driven decisions.

Prepper: Meal Planning System with Macro calculator and Recipe Finder

October 2024 – Jan 2025

React Native, Firebase, Figma, Git

- Developed a cross-platform mobile application enabling users to plan weekly meals, track calories and macronutrients, and generate automated grocery lists. Integrated interactive charts and progress bars for visualizing calorie and nutrient intake.
- Implemented user authentication, personalized meal plans, and real-time data synchronization using Firebase/Firestore.
- Designed intuitive UI/UX with React Native, including custom components for meal management, nutrition indicators, and progress tracking. Enabled users to add, edit, and delete meals, manage recipes, and update personal health data.

LEADERSHIP EXPERIENCE

Software Engineering II Project

September 2024 – Jan 2025

Project Manager

- Led the end-to-end development of a comprehensive web-based room reservation and management system, coordinating a cross-functional team of developers, analysts, UI/UX designers, and testers to ensure timely and successful delivery.
- Oversaw project planning, task delegation, and progress tracking, ensuring effective communication and collaboration among team members, adopting best practices to achieve successful feature implementation and deployment.
- Managed requirements gathering, client communication, and quality assurance processes, resulting in a user-friendly platform that streamlined room booking and scheduling for institutional users, ensuring alignment with institutional needs.

TECHNICAL SKILLS

Languages: Java, Python, Javascript, SQL (MySQL), HTML/CSS

Frameworks/Libraries: React, Node.js, React Native, Bootstrap, Tailwind, Wordpress, Figma

Developer Tools: Git, Google Cloud Platform, VS Code, Pycharm, Godot, Supabase, Firebase, Blender

OS: Windows