

DAVE OMAR E. MAJELNA

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TECHNICAL SKILLS

Languages: PHP, HTML/CSS, SQL, JavaScript

Frameworks: Bootstrap, Laravel

Tools: Git, GitHub, VS Code, Visual Studio, XAMPP

Database: MySQL

EXPERIENCE

WEB DEVELOPER INTERN | DOST - National Academy of Science and Technology

May 2025

- Contributed to the development of Event Management System, ASM Management System and NAST Website.
- Designed CRUD modules, activity logging, admin dashboards.
- Conducted UAT, optimized and deployed systems.
- Conducted user acceptance testing, debugging, and final deployment to live hosting environments.
- Ensured security, accessibility, and government web compliance.

PROJECTS

NAST OFFICIAL WEBSITE  | *Laravel, Blade, PHP, MySQL, JavaScript*

July 2025

- Collaborated in planning and designing the user interface of a government website focused on transparency and public accessibility.
- Created wireframes and page layouts for core sections: Home, About, Members, Publications, Careers, Contact Us, and Transparency.
- Ensured UI consistency, accessibility, and mobile responsiveness across all pages.
- Coordinated with the development team to align design mockups with front-end implementation.

ADVANCED EVENT MANAGEMENT SYSTEM  | *PHP, HTML/CSS, javascript, MySQL*

May 2025


- Developed a system for managing events and venue bookings with QR code-based registration and attendance tracking.
- Included admin controls for managing users, events, and venues with role-based access and reporting features.
- Enabled website customization, security settings, and automated email notifications for confirmations.

DATABASE MANAGEMENT SYSTEM  | *Laravel, Blade, PHP, MySQL, JavaScript*

April 2025

- Designed and developed a complete admin dashboard with integrated database management for key stakeholders, including media representatives and, other partners.
- Implemented robust CRUD functionality with form validation, pagination, search filters, and soft delete (trashbin) features
- Built transaction logs, user settings, and customizable system themes for enhanced admin experience.
- Deployed on a live hosting server after thorough testing, optimization, and UAT with DOST-NAST staff.

INTELLIGENT MANGO DETECTION SYSTEM USING

YOLO ALGORITHM  | *Python, Pycharm, pyTorch, Visual Studio, Google Collab, Roboflow, C++*

January 2025

- Developed a system leveraging the YOLO algorithm and deep learning to automate mango quality assessment based on attributes like ripeness, size, and defects.
 - Designed an image processing pipeline and trained a robust model, achieving high accuracy and efficiency in detecting mango quality.
 - Validated the system through real-world agricultural testing, focusing on functionality, reliability, and usability.
 - Aimed to support the agricultural industry by enhancing productivity, reducing manual labor, and ensuring high-quality produce.
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STUDENT ATTENDANCE MANAGEMENT SYSTEM | C#, .NET, SQL Server

October 2024

- Developed a desktop-based system for managing student attendance using QR code scanning handled by staff and professors.
- Implemented secure QR code check-ins to automate and simplify attendance tracking.
- Added a grading system that calculates scores based on attendance records.
- Designed a ranking feature to identify and highlight top-performing students based on attendance performance.

MEDICATION REQUEST SYSTEM | PHP, HTML/CSS, javascript, MySQL

May 2024

- Developed an online system that allows patients to request medications remotely without visiting their local health center.
- Implemented user registration and login with identity verification through valid ID uploads to ensure barangay residency.
- Enabled patients to submit illness details, medication needs, and prescription uploads for review by nurses and doctors.
- Streamlined the request process to support faster response and better coordination between patients and healthcare staff.
- Integrated SMS notifications to update patients on the status of their requests, improving communication and response time.

INVENTORY MANAGEMENT SYSTEM | PHP, HTML/CSS, javascript, MySQL

Dec 2023

- Developed a system to manage and track ICT equipment inventory within an organization.
- Implemented user functionality for borrowing equipment, including request submission and return logging.
- Enabled database management of items, availability status, and transaction history for accurate inventory tracking.
- Included admin features for adding, updating, and monitoring equipment data efficiently.

DEFENSE TAPPING MOBILE GAME | DON'T TOUCH MY SUGAR | Godot

Dec 2023

- Led the development of a rogue-like tapping defense game for Android, utilizing Godot for design and functionality.
- Designed and implemented a level-up progression system paired with an RNG-based upgrade mechanic to enhance replayability.
- Developed a wave-based enemy spawning system to create dynamic and challenging gameplay experiences.

EDUCATION

MAHARLIKA INTEGRATED SCHOOL	Pendatun Street, Maharlika Village, Taguig
	2009 – 2015
MARIA ASUNCION RODRIGUEZ HIGH SCHOOL	Eduria Street, Central Bicutan, Taguig
	2015 – 2019
MOREH ACADEMY	Bonifacio Avenue, Corner, Upper Bicutan, Taguig
	2019 - 2021
TAGUIG CITY UNIVERSITY	Gen. Santos Avenue, Central Bicutan, Taguig
Bachelor of Science in Computer Science	2021 - 2025

ACADEMIC ACHIEVEMENTS AND CERTIFICATIONS

Consistent Dean’s Lister Taguig City University	2021 – 2025
Participant in Research Festival 1st ISTREL Annual Scientific Conference (IASC2025)	April 2025
Participant in LaQuest Google Workspace Plus Mastery Training	April 2025
Participant in Research Festival 1st International Conference on Special Needs And Inclusive Education 2025 [Icsnie2025]	June 2025

REFERENCES

Ms. Arleen Pineda	Taguig City
IT Officer I DOST - NAST	09178510447
Ms. Jackelyn T. Trinidad	Taguig City
Professor Taguig City University	09168384055
Mr. Joevilzon M. Calderon	Taguig City
Professor Taguig City University	09177067955