

Jason Rey B. Miran

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EDUCATION

Mapúa Malayan Colleges Laguna <i>Bachelor of Science in Information and Technology</i>	Cabuyao, Laguna <i>Expected Graduation, October 2025</i>
<ul style="list-style-type: none">Specialization: Internet of ThingsRelated Coursework: Embedded systems, Microcontrollers and IoT devices, Web and Mobile App development.Dean's Lister, 2024	

EXPERIENCES

Management Information System (MIS) Department Intern <i>Shin-Etsu Magnetics Philippines, Inc.</i>	Binan, Laguna <i>April 2025 – July 2025</i>
IT Programmer & Technical Support <ul style="list-style-type: none">Converted the company's Excel-based inspection system into a web-based application with a centralized database, streamlining operations and improving data accuracy, accessibility, and efficiency.This transformation significantly reduced manual errors and cut IT-related operational costs by 50%.Provided ongoing technical support by resolving hardware, software, and network issues, ensuring minimal downtime and maintaining smooth IT operations.	

CERTIFICATIONS

CompTIA IT Fundamentals +
CompTIA – July 2024

SKILLS

Programming: C#, Python, C++, HTML, CSS, JavaScript, SQL, PHP
Framework: Bootstrap, Sweet Alert, ASP.NET, Xamarin
Tools & Technologies: Arduino IDE, Visual Studio, GitHub, Figma
Platforms: Windows
Languages: English, Tagalog

RESEARCH & PROJECTS

E-Commerce Website <i>Web System for InkPress Printing Services</i>	Cabuyao, Laguna <i>S.Y. 2022-2023</i>
<ul style="list-style-type: none">Developed an e-commerce website for a paper-selling company based in Biñan City.Designed and implemented the website using ASP.NET.Integrated a database-driven system to manage product listings, orders, and customer transactions.	
RFID-Based Log System <i>Smart Access Control and Monitoring System</i>	Cabuyao, Laguna <i>S.Y. 2023 – 2024</i>
<ul style="list-style-type: none">Built an RFID-based logging system using WeMo's and an RFID sensor for secure access control.Designed a database-backed log system for recording and monitoring access activity.Developed a web-based dashboard for viewing activity logs and managing users.	
Air Quality Monitoring System <i>Air Quality Checking and Tracking for Environmental Compliance: An IoT-Based Air Quality Monitoring System</i>	Cabuyao, Laguna <i>S.Y. 2024 – 2025</i>
<ul style="list-style-type: none">Developed an IoT-based air quality monitoring system using ESP32 and MQ sensors to detect gases such as CO, CO₂, and other pollutants.Designed a real-time data logging system, storing sensor readings in a database for tracking and analysis.Implemented a web interface for public access to real-time air quality data in Cabuyao City.	
Magnet Inspection Web System <i>Centralized Magnet Inspection and Model Management Web Application</i>	Biñan, Laguna <i>S.Y. 2024 – 2025</i>
<ul style="list-style-type: none">Replaced a manual, Excel-based process with a centralized web system using PHP, MySQL, and XAMPP, improving data accuracy and workflow efficiency.Designed a touchscreen-optimized interface with real-time alerts, visual charts, and searchable history logs to support quality control and operator decision-making.Implemented secure, role-based access to separate admin and operator functions, enhancing traceability and system reliability in an industrial setting.	

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Cybernetics
House Captain

Cabuyao, Laguna
Aug 2023 – June 2024

- Led 150+ students from the College of Computer and Information Sciences (CCIS) in various academic and recreational activities.
- Organized and encouraged student participation in school-wide events, sports, and team-building activities to foster camaraderie and school spirit.

Mapúa MCL InfoTech Society
Member

Cabuyao, Laguna
S.Y. 2023 – 2025

- Actively volunteered as a member of the Mapúa MCL InfoTech Society, supporting and assisting in organizing seminars and events that promoted learning, collaboration, and student engagement.

SEMINARS

Introduction to the Data Centre Industry
Digital Halo Data Center

August 2024

- A foundational course conducted by Digital Halo, covering data center operations, infrastructure, design principles, and the industry's role in digital ecosystems.

Generative AI for Beginners
Great Learning Academy

November 2024

- Completed a foundational course on Generative AI, gaining hands-on understanding of key concepts such as machine learning, neural networks, and large language models.

WearOS: Emerging Technology for Internet and Learning of Everything
Mapúa Malayan Colleges Laguna

November 2024

- Explored the use of WearOS in smart devices and its role in the Internet and Learning of Everything (IoE/LoE) landscape.