

# Jason Rey B. Miran

jrbmiran@live.mcl.edu.ph | (+63) 991-413-6613 | LinkedIn: jason-rey

## EDUCATION

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

## EXPERIENCES

<b>Management Information System (MIS) Department Intern</b> <i>Shin-Etsu Magnetics Philippines, Inc.</i>	<b>Binan, Laguna</b> <i>April 2025 – July 2025</i>
<b>IT Programmer &amp; Technical Support</b> <ul style="list-style-type: none"><li>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.</li><li>This transformation significantly reduced manual errors and cut IT-related operational costs by 50%.</li><li>Provided ongoing technical support by resolving hardware, software, and network issues, ensuring minimal downtime and maintaining smooth IT operations.</li></ul>	

## CERTIFICATIONS

<b>CompTIA IT Fundamentals +</b> <i>CompTIA – July 2024</i>
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## SKILLS

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

## RESEARCH & PROJECTS

<b>E-Commerce Website</b> <i>Web System for InkPress Printing Services</i>	<b>Cabuyao, Laguna</b> <i>S.Y. 2022-2023</i>
<ul style="list-style-type: none"><li>Developed an e-commerce website for a paper-selling company based in Biñan City.</li><li>Designed and implemented the website using ASP.NET.</li><li>Integrated a database-driven system to manage product listings, orders, and customer transactions.</li></ul>	
<b>Light Motion Sensor with Manual Override</b> <i>Smart Lighting and Monitoring System</i>	<b>Cabuyao, Laguna</b> <i>S.Y. 2023 – 2024</i>
<ul style="list-style-type: none"><li>Developed an IoT-based lighting system using LRD sensors to automate light control based on ambient light levels.</li><li>Integrated manual override functionality through a web interface built with PHP, JavaScript, and SQL/MySQL.</li><li>Implemented real-time data logging of light level changes for monitoring, energy efficiency analysis, and smart home integration.</li></ul>	
<b>RFID-Based Log System</b> <i>Smart Access Control and Monitoring System</i>	<b>Cabuyao, Laguna</b> <i>S.Y. 2023 – 2024</i>
<ul style="list-style-type: none"><li>Built an RFID-based logging system using WeMo's and an RFID sensor for secure access control.</li><li>Designed a database-backed log system for recording and monitoring access activity.</li><li>Developed a web-based dashboard for viewing activity logs and managing users.</li></ul>	
<b>Air Quality Monitoring System</b> <i>Air Quality Checking and Tracking for Environmental Compliance: An IoT-Based Air Quality Monitoring System</i>	<b>Cabuyao, Laguna</b> <i>S.Y. 2024 – 2025</i>
<ul style="list-style-type: none"><li>Developed an IoT-based air quality monitoring system using ESP32 and MQ sensors to detect gases such as CO, CO<sub>2</sub>, and other pollutants.</li><li>Designed a real-time data logging system, storing sensor readings in a database for tracking and analysis.</li><li>Implemented a web interface for public access to real-time air quality data in Cabuyao City.</li></ul>	

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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**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

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**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.