

# Ranie Nathaniel M. Santiago

Bachelor of Science in Information Technology  
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## Experiences / Projects Developed

### Census and Tagging System

A web-based platform for encoding and managing community census data with beneficiary tracking.  
Tools used: PHP (CodeIgniter), MySQL, JavaScript, Bootstrap.  
City Government of Biñan Laguna (April 2025-Present).  
Intern System Development in Information Communications Technology Department.  
**Capstone Project: SmartFlow: IoT Enabled Portable Traffic Light System for Enhanced Urban Mobility**  
Smartflow enables a prototype portable traffic light system which adapts through different traffic scenarios.  
Tools used: C/C++ (Arduino IDE). Firebase, My SQL.  
Mapua Malayan Colleges Laguna (August 2024 – August 2025)  
Bachelor of Science in Information Technology.

## Organizations

### InfoTech Society

Member of the Mapúa Malayan Colleges Laguna InfoTech Society actively participates in events and initiatives that promote collaboration, technical skills development, and IT community engagement within the campus. (August 2023 – August 2025)

## Education

### Tertiary (College)

Mapua Malayan Colleges Laguna (2021 – Present)  
(Bachelor of Science in Information Technology) Cabuyao, Laguna

### Secondary School (Senior High School)

Mapua Malayan Colleges Laguna (2019 – 2021)  
(Information Communications Technology) Cabuyao, Laguna

### Secondary School (Junior High School)

Dominican College of Santa Rosa (2015 – 2019) Sta Rosa City, Laguna

### Primary School

Dominican College of Santa Rosa (2009 –2015) Sta Rosa City, Laguna

## Skills

### Technical Skills

- Programming languages and tools: Python, HTML, CSS, Basic SQL Database, Php, Bootstrap, Basic C#, Basic C/C++, Firebase, .NET Framework, CodeIgniter
- Agile Development Methodology: Planning, Design, Development, Testing, Deployment, Review
- Internet of Things & Embedded Systems: Basic Internet of Things concepts, sensor integration, microcontroller programming, Arduino Integrated Development Environment.
- Basic Video Editing, Image Editing using Canva and Adobe Lightroom filters.

### Personal Skills

- Active listening and collaboration among team members.
- Capable to learn and adapt to new technologies, methodologies, and skills.
- Encouraging self-motivation to work smoothly with numerous tasks.
- Proactive in assisting team members and improving workflow.
- Strong verbal and written communication skills.

## Character References

### Adomar L.Ilao

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### Khristian G. Kikuchi

Dean, College of Computer and Information Science, Mapua Malayan Colleges Laguna  
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### Ramon Almazan

Department Head, Department Information Communication Technology, City Government of Biñan Laguna