

Melchor S. Espinosa III

Software Engineer

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QUALIFICATION

- Highly motivated and eager to apply academic knowledge in real-world settings
- Strong sense of responsibility, discipline, and commitment to excellence
- Able to work well independently and collaboratively in diverse team environments
- Skilled in problem-solving, adaptability, and handling challenges with a positive attitude
- Effective communication and interpersonal skills, with experience in both academic and project-based settings

OBJECTIVE

To pursue a career where I can apply my skills, knowledge, and dedication to contribute to the success of the organization while continuously striving for personal and professional growth. I aim to embrace opportunities that challenge my adaptability, enhance my problem-solving abilities, and expand my competencies across different areas. With integrity, collaboration, and a commitment to excellence, I seek to become a valuable asset who delivers meaningful contributions and creates a positive impact in the workplace and the community.

EDUCATIONAL ATTAINMENT

Tertiary

MAPÚA MALAYAN COLLEGES LAGUNA

Cabuyao, Laguna

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

2021 - 2025

Secondary

CHRISTIAN SCHOOL INTERNATIONAL

Los Baños, Laguna

2015 - 2020

Elementary

CHRISTIAN SCHOOL INTERNATIONAL

Los Baños, Laguna

2010 - 2015

EXPERIENCE

Software Engineer Intern

Pixel8 Web Solutions & Consultancy Inc.

May 2025 – July 2025 | Remote / Legazpi

- Assisted in the development and testing of the BookOn appointment-booking platform using Vue.js (Quasar) for the frontend and PHP/MySQL for the backend.
- Set up and configured Docker and XAMPP environments to run backend services.
- Collaborated on database integration and API connection between frontend and backend.
- Conducted automated testing using Playwright to ensure reliability of booking features.
- Participated in implementing Google Calendar integration for appointment scheduling.
- Gained practical experience in software development workflows, debugging, and version control (GitLab).

CERTIFICATIONS

Cisco Certified Support Technician (CCST) - Cybersecurity

Cisco Networking Academy — Issued Aug 2025 - Expires Aug 2030

- Skills covered: Network security fundamentals, threat detection, incident response, and cybersecurity operations.

CompTIA Tech+

CompTIA — Issued Aug 2025

- Skills covered: IT fundamentals, troubleshooting, networking, and device configuration.

PROJECTS

DEVELOPMENT OF A BIOSENSOR FOR THE DETECTION OF ANAEMIA DISORDER USING CONVOLUTIONAL NEURAL NETWORK

(Raspberry Pi, Python, OpenCV, TensorFlow, CNN)

- Designed a remote biosensor prototype that captures and transmits blood smear images real-time anemia detection.
- Trained a convolutional neural network (CNN) to classify red blood cell characteristics for anemia identification.
- Implemented Raspberry Pi hardware for image processing and LCD display visualization.
- Developed an image-processing program to detect and count red blood cells from microscope images using segmentation techniques.
- Applied thresholding and contour detection for accurate RBC counting and display through a GUI.

BookOn Appointment Booking Platform (Internship Project)

(Vue.js/Quasar, Node.js, PHP, MySQL, Docker, Playwright, GitLab, Google Calendar API)

- Assisted in developing a full-stack appointment booking system connecting frontend and backend via API integration.
- Performed automated testing using Playwright to ensure booking reliability and user-flow consistency.
- Helped implement Google Calendar integration for automatic scheduling and notifications.

TECHNICAL SKILLS

- Programming Languages: Python, Java, C#, and C++
- Development Environment: Visual Studio 2019
- Data Structures and Algorithms
- Microsoft Office Applications Suite:
 - Microsoft Office Word
 - Microsoft Office Excel
 - Microsoft Office Powerpoint
- Oriented in Database: SQL
- Oriented in Google Cloud Console

SOFT SKILLS

- Adaptability
- Continuous learning
- Analytical Thinking

CHARACTER REFERENCE

ENGR. MARIBELLE D. NICERIO

Computer Engineering Program Chair, MMCL

Cabuyao, Laguna

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Camilo Bongbonga Jr.

Software Developer Supervisor, Pixel8

Legazpi, Albay

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