

MATTHEW A. CENTENO

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A computer engineering student with experience in databases, machine learning, and web development. Proficient in collaborating with peers on projects involving hardware and software integration, including Arduino projects, conveyor systems, and robotics.

PROJECTS & EXPERIENCES

De La Salle University – Dasmariñas

September 2024 - PRESENT

Veritasium: Fake News Detection Model

- Developing a machine learning solution that integrates natural language processing techniques to discern fake news stories, achieving a detection rate of 80% within the preliminary testing phase.
- Conducted thorough research to identify key features in existing fake news detection solutions, leading to the integration of 3 innovative algorithms that increased overall performance during preliminary assessments.

De La Salle University – Dasmariñas

December 2024

Windows Server 2022

- Designed and deployed 2 organizational servers with a domain website, implementing role-based access control and permissions for secure and efficient management.
- Configured and managed Active Directory Domain Services (AD DS) to streamline user authentication, access control, and network resource management."
- Implemented secure file sharing protocols across 5 computers, ensuring role-based access control that established data protection and reduced unauthorized access incidents by establishing user-specific permissions.

De La Salle University – Dasmariñas

October 2024

Machine Learning-Based Finger Detection and Counting

- Developed a machine learning program in Python that uses computer vision to detect and count the number of fingers a person is holding up in real time with a reliability of 76%.
- Demonstrated practical AI applications but also inspired peers to explore Python and machine learning.

De La Salle University – Dasmariñas

April 2024 – December 2024

Robotic Arm & Conveyor Belt

- Constructed a microprocessor-driven robotic arm that was displayed at showcase in campus, attracting over 300 attendees
- Generated significant interest in robotics among the 300 students and faculty alike.

Computer Engineers of DLSUD

December 2022 - December 2024

Head of Media

- Played a key role in rebuilding the organization from 4 to 30 members by leading promotional efforts and event marketing.
- Spearheaded initiatives that enhanced visibility and engagement, contributing to the organization's growth and success by 20%.

St. Ignatius Technical Institute of Business and Arts

October 2016

Computer Literacy & Basic Visual Graphic Design Program

- Acquired skills in Microsoft Office Suite and key editing tools, resulting in consistent creation of high-quality presentations that received positive feedback from faculty on clarity and visual appeal during academic presentations.

EDUCATION

De La Salle University - Dasmariñas

2021 - PRESENT

Bachelor of Science in Computer Engineering Major in Software Engineering

- Coalesce Database Race 3rd Place (2023)

Santa Rosa Science and Technology High School

2015 - 2021

High School

- Graduated with High Honors

SKILLS & OTHER

Skills: MATLAB, Python, Scikit-learn, C++, Java, SSMS, PHP, ReactJs, HTML, CSS