

ZACHARY BRENT L. MAYUGA

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SUMMARY

A Computer Engineering graduate from De La Salle University with a keen interest in pursuing a career as an Al engineer or/and software developer. Demonstrates a strong foundation in engineering principles, a versatile skill set, and the adaptability to excel in dynamic work environments. Known for a positive and proactive attitude, combined with a commitment to continuous learning and innovation in the field of artificial intelligence and software development.

WORK EXPERIENCE

Events Officer, Association For Computer Engineers

Sep 2023 - Dec 2024

- Served as Events Officer in the organization, leading the coordination of academic talks in computer engineering.
- Collaborated with speakers and stakeholders to ensure the success of technical and academic discussions.
- Contributed to the professional development of members through relevant academic initiatives.

Intern Software Developer, Essilor Luxottica

May 2024 - Sep 2024

- Completed an internship at Essilor Luxottica as a software developer, focusing on building userfriendly applications.
- Gained hands-on experience in React, contributing to the development of interactive and efficient software solutions
- Collaborated with a team to implement responsive design and improve application performance.

EDUCATION

Bachelor's Degree in Computer Engineering

Feb 2025

De La Salle University Manila

- Cum Laude
- · Consistent Dean's Lister
- Thesis on "Development of an Automated Scoring System in Ball Sports using CNN from a Virtual Simulation"
- Attended the 5th Al Expo Autumn Tokyo in Makuhari Messe, Japan

May 2020

Stem Qualifier

Las Pinas City National Science Highschool

- · Finished with High Honors
- · President of the Science Club
- Exemplary Award in Robotics and Programming

TECHNICAL SKILLS

Computer Vision

- Image processing
- Frameworks: OpenCV, TensorFlow, PyTorch, Keras
- Tools: YOLO

Natural Language Processing (NLP)

- Frameworks: TensorFlow, PyTorch
- Tools: OpenAl GPT models, IBM Watson Language Translator

Generative Al

- Models: GANs (Generative Adversarial Networks), VAEs (Variational Autoencoders).
- Tools: DALL·E

TECHNICAL SKILLS

Machine Learning

- · Data Prediction
- Data Analyzation
- Data Annotation
- Model Training
- Model Optimization

Web Development (Front end)

- ReactJS
- Typescript

PROJECTS

Bot Deveolpment (Discord)

- Integration of diverse programming solutions through the utilization of APIs
- Incorporating advanced personalized AI into the bot to interface with an organization's database.

Development of an Automated Scoring System in Basketball using Convolutional Neural Network (CNN) from a Virtual Simulation (Thesis Study)

- Successfully developed an automated scoring system capable of detecting and tracking basketball scoring events in a virtual simulation environment.
- The system showcases real-time performance with high accuracy, enhancing the reliability of basketball simulations.

Zombie vs Knights

• Developed a simple turn-based video game using Java's Scenebuilder showing a great understaning of Object-Oriented Programming and Data Structures.

PROGRAMMING LANGUAGE

- Python
- Matlab
- Java
- C and C++
- · Javascript, HTML, CSS, and ReactJS
- HDLs (Verilog and VHDL)