

# Deighro De Ocampo

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## Education

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Technological Institute of the Philippines – Quezon City

July 2025

Bachelor of Science in Computer Science

GWA 1.33

- Cum Laude
- VPAA's Lister (2021 – 2023)
- Dean's Lister (2023)

## Projects

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### Thesis - Real-Time Traffic Sign Detection and Classification Using Convolutional Neural Networks: YOLOv8s and ResNet50V2

Developed and engineered a real-time traffic sign detection and classification system using YOLOv8s and ResNet50V2, achieving 82.80% accuracy and enhanced recognition reliability for autonomous vehicles.

### Software Engineering - Inventory Management System

Coordinated and developed an inventory management system for Ranil's Poultry Shop, transitioning operations from manual to digital, which reduced receipt-generation errors, enhanced data security, and streamlined overall inventory workflows.

### Applied Text Mining – NLP Feature Extraction

Developed an NLP project using NLTK to analyze, visualize, and summarize datasets, integrating network visualization, topic modeling, sentiment analysis, and data preprocessing workflows.

### Data Science - Efficient Allocation of Funds for Optimal Nutritional Intake in Daily Diets

Developed a Python project using linear programming to analyze a recipe dataset and recommend optimal price-to-nutrient ratios based on user-defined nutrient intake.

### Mobile Application Development – Sign Quest: A Sign Language Application

Designed and developed a cross-platform Flutter sign-language learning app, Incorporated multimedia content, and Implemented Firebase for secure data handling and user management.

### Mobile Application Development - Lorthew: A Tutor Finding Application

Developed and integrated a cross-platform Flutter app supporting live chat, authentication, and scheduling, Leveraging Firebase for real-time messaging and data management.

## Technical Skills

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|------------------------|--------|---------|
| • Machine Learning     | • Java | • CSS   |
| • Software Development | • C#   | • MySQL |
| • Python               | • HTML | • PyQt5 |

## Experience

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HOME DEVELOPMENT MUTUAL FUND (PAG-IBIG FUND)

Mandaluyong City, PH  
February – May 2025

Software Developer Intern

- Administered and enhanced MySQL databases by implementing stored procedures.
- Created automation solutions using C# to replace manual data entry.

## Leadership, Activities, and Volunteer Service

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### **Association for Computing Machinery (ACM)**

Member

November 28, 2024 - July 5, 2025

### **Junior Philippine Computer Society (JPCS)**

Member

January 12, 2023 – July 5, 2025

### **Junior Information Systems Security Association (JISSA)**

Member

October 12, 2023 - November 05, 2024

### **Abstract Combination with Emotional Quotient (ACE-Q)**

Member

October 15, 2023 – November 05, 2024

### **Junior Philippine Computer Society (JPCS)**

Director – Technical

January 12, 2023 November 05, 2024

### **Department Student Council (Computer Science)**

Auditor

February 02, 2023 – November 05, 2024

## References

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### **Mr. Jess N. Garcia**

CS OJT Faculty-in-Charge, Technological  
Institute of the Philippines-Quezon City

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### **Karen V. De Lara**

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Philippines-Quezon City

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