

# Roljohn Frilles

---

Manila, Philippines • [psychhammer87@gmail.com](mailto:psychhammer87@gmail.com) • 09541760422 • [Linkedin](#) • [Github](#) • [personal-web](#)

## Co-Curricular Experience

### AWS CLOUD CLUB Skill Building - PUP MANILA

Manila, Philippines

ML/AI Co-Head

2023 - 2024

- Led a hands-on workshop introducing foundational Python concepts essential for AI and machine learning, covering key libraries such as NumPy, Matplotlib, and Pandas.

## Education

### POLYTECHNIC UNIVERSITY OF THE PHILIPPINES - MANILA

Manila, Philippines

Bachelor of Science in Computer Science

October 2022 - Present

- Consistent President's Lister.
- DOST-SEI Scholar: (2022 – Present)

### NEW ERA UNIVERSITY

Quezon City, Philippines

Science, Technology, Engineering, Mathematics Strand

2020 – 2022

- With Academic Honors

## Leadership & Activities

### COLLABOTHON: IDEAJAM

Manila, Philippines

Co-Facilitator

February 2024

- Co-facilitated during the Collabothon: IdeaJam, guiding participants through brainstorming sessions and facilitating discussions on solutions using emerging technologies.

### AMAZON WEB SERVICES (AWS) STUDENT COMMUNITY DAY 2024

Manila, Philippines

Technical Support Member

April 2024

- Contributed to the technical execution of the event, ensuring smooth facilitation of sessions and supporting the learning experience for attendees.

## Skills

### Technical Skills

- Programming Language: Python, HTML, CSS, JavaScript, Flutter
- Data Science: Matplotlib, NumPy, Pandas, PyTorch
- Machine Learning: Regression, Classification, and Neural Networks.
- Developer Tools: Gradio, Hugging Face, Arduino Uno (for hardware integration)

## Certifications & Awards

<b>Computer Vision: Deep Learning with PyTorch: Object Localization</b>	<b>Coursera Project Network</b> 2023
<b>Computer Vision: Deep Learning with PyTorch: Image Segmentation</b>	<b>Coursera Project Network</b> 2023
<b>Certificate of Appreciation: Collabothon: IdeaJam</b> Co-Facilitator	<b>Department of Budget and Management</b> 2023
<b>AWS Cloud Club Skill Building</b> ML/AI CO-HEAD	<b>Manila, Philippines</b> 2024

## Projects

- CyberNix-12 Alphabot: Healthcare Companion for Isolated COVID-19 Patients** 2020
- Led programming and hardware integration of a healthcare companion robot using Arduino Uno, integrating heart rate, oximeter, and temperature sensors to display vital signs and motivational messages via an LCD interface, and included medication reminders and a mobile UV sterilization cart.
- YOLOv8 Object Detection Application** 2023
- Developed an interactive machine learning application using Gradio and Hugging Face, leveraging YOLOv8 for precise object detection in uploaded images, providing visual feedback with bounding boxes and classification.
- Smart Logistics Optimizer (Knapsack Algorithm)** 2024
- Created a mobile logistics application that optimizes truck loading efficiency using the knapsack algorithm, intelligently determining optimal item combinations for pallet loading to maximize space utilization and profit margins.
- Kuwartrack: Personal Finance Manager** 2025
- Led a team in developing a comprehensive financial tracking mobile application with an intuitive Home dashboard for weekly expense categorization, a robust Transaction module for budget setting and expense tracking, and detailed Category Breakdown functionality.