

# Mark Kevin A. Ong Yiu

ongyiumark.com | LinkedIn | GitHub

## PROFESSIONAL SUMMARY

AI & Data Science Manager with a rigorous mathematical background (Summa Cum Laude in BS Applied Mathematics, Master in Data Science) and extensive experience building end-to-end data products. Proven track record of independently designing demand forecasting models, data pipelines, dashboards, automation frameworks, and full-stack web applications for North America operations at Ramcar Batteries.

## EXPERIENCE

### Philippine Batteries Inc. | AI & Data Science Manager (formerly Data Scientist)

Aug 2024 - Present | Hybrid (North America Division)

- **Sole Data Leader:** Architect and manage the entire commercial and logistics data infrastructure, forecasting models, and internal applications for the North America branch.
- **Advanced Forecasting & Automation:** Spearheaded the integration of machine learning demand-forecasting models, drastically improving forecast accuracy and optimizing inventory planning.
- **Full-Stack Applications:** Designed, built, and deployed internal full-stack applications (Databricks, Streamlit) used by cross-functional teams for day-to-day operations, real-time data visualization, and decision-making.
- **Data Engineering:** Engineered robust data pipelines and maintained centralized databases combining internal and third-party sources to streamline order, sales, inventory, and logistics data for actionable insights.

### Nara Institute of Science and Technology | Research Intern — Mathematical Informatics Lab

Jan 2024 | Ikoma, Nara, Japan

- Performed macroeconomic nowcasting on GDP using Dynamic Factor Models (DFM).
- Researched and evaluated the impacts of applying advanced regularization techniques to DFM performance.

## EDUCATION

### Ateneo de Manila University

- **Master in Data Science** (Grad. June 2024) — QPI: 4.00/4.00
- **BS Applied Mathematics** (Grad. July 2023) — QPI: 3.92/4.00 (Summa Cum Laude, Program Awardee, Director's List Scholar)
- **Minor in Enterprise Systems** (Grad. July 2023)

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C++, R, Java, Processing, C#
- **Web & Data:** React, Next.js, Streamlit, Spring Boot, MongoDB, SQL, Data Pipelines, Machine Learning, Forecasting
- **Core:** Algorithms, Data Structures, Git, Typst / LaTeX

## AWARDS & COMPETITIVE PROGRAMMING

- **Simon Marais Mathematics Competition 2022:** Top Quartile
- **StackLeague 2022:** Individual Grand Winners (Top 8)
- **Meta Hacker Cup 2022:** Round 2 Finalist
- **ASEAN Data Science Explorers 2022:** National Finalist (2nd Place)
- **Google Code Jam 2022:** Round 2 Finalist

## RESEARCH & PUBLICATIONS

### ICOAIMS 2023 | Conference Presentation

August 22-24, 2023 | Kuantan, Malaysia

- Presented “**Applying XGBoost, Neural Networks, and Oversampling in the Undernutrition Classification of School-aged Children in the Philippines**”.