JOHN ARMAND V. YABUT

BS COMPUTER SCIENCE (SPECIALIZING IN DATA SCIENCE)

CONTACTS

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EDUCATION

Mapua University (2021-2025)
- Cum Laude
- Cardinal Excellence Awards 2025 - President's Lister - Top 4 (2Q AY 2023 - 2024)
- President's Lister - Top 2 (1Q, AY 2022-2023)
- President's Lister - Top 2 (2Q, AY 2023-2024)
- Dean's Lister - Top 17 (4Q, AY 2022-2023)
- Dean's Lister - Top 17 (1Q, AY 2022-2023)
- Dean's Lister - Top 19 (2Q, AY 2022-2023)

Charis School (2006-2021)
- Diploma in Senior High School: Science, Technology, Engineering, and Mathematics (STEM)
- Finished 5th rank of the class in the STEM academic strand.
- With Honors (Batch 2021, SHS)
- With Honors (Batch 2016, JHS)

CAREER OBJECTIVE

Passionate and analytical computer science graduate, seeking a challenging Data Scientist/Analyst role or a Software Engineer role. Eager to apply academic knowledge and hands-on experience in statistical analysis, machine learning, and data visualization to contribute to innovative solutions and drive data-driven decision-making in a dynamic team environment.

EXPERIENCES

Software Engineer Intern at FactSet Philippines, Inc. (July 2024 - September 2024)
- Gained knowledge/experience in the following:
  - Asynchronous Programming, Flask Framework, Working in Git/GitHub in a professional setup, and working with APIs.

RESEARCH PAPERS AND PROJECTS

- **Enhancing Pedestrian Safety with Advanced Video Detection: Harnessing YOLOv7 to Identify Smartphone Usage Among Walkers (2024) (https://dl.acm.org/doi/10.1145/3669754.3669765)**
  - A study that leverages the YOLOv7 object detection model to develop a system capable of identifying individuals using smartphones while walking and individuals that are not preoccupied with their smartphones, aiming to improve pedestrian safety through real-time video analysis.
- **Cryptojacking: A Comprehensive Review of Attack Techniques, Victims, and Effective Mitigation Strategies (2024)**
  - Accepted at the 7th International Conference on Information Science and Systems (ICISS 2024)
  - Provides an in-depth examination of cryptojacking threats, including attack methods, vulnerable targets, and countermeasures to protect against this emerging cybersecurity menace.
- **Adapting the ARIMA Model in Vehicle Frequency Forecasting in Metro Manila's Circumferential and Radial Roads (2023)**
  - Created a temporal forecasting model based on AutoRegressive Integrated Moving Average (ARIMA) techniques to predict vehicular traffic volumes along Metro Manila's peripheral and central roadways.
- **Real-Time CCTV Data Visualization Dashboard (2023)**
  - Utilized ZooKeeper, Apache Kafka, Apache Cassandra, Spark, and Hive to create a real-time data streaming platform, complemented by a data dashboard for real-time CCTV analytics using Power BI, Microsoft Excel, and Google Sheets.
- **Motorcycle Rider and Helmet Type Detection (2023)**
  - Develops a real-time object detection system using YOLOv5 to identify both motorcycle riders and their helmet types, aiming to enhance road safety through automated monitoring and enforcement of helmet regulations.
- **Motorcycle Rider-Courier-Tailbag-Helmet Detection (2023)**
  - Develops an advanced object detection system using YOLOv8 and DCGANs to identify motorcycle riders, couriers, tailbags, and helmet types, aiming to enhance road safety through automated monitoring and enforcement of traffic regulations.
- **Maticare - An Appointment Setter Web-Based Application**
  - Developed a dynamic web application named Maticare, which is an appointment setter web-based application.
- **Barrio Liwanag Web Application**
  - Developed a dynamic web application for Barrio Liwanag, which is a community at the University of the Philippines (U.P.)

TRAININGS AND CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Cloud Foundations - July 2024
- Python Data Structures - January 2022
- Database Management Essentials - May 2022
- Data Structures - April 2022
- Fundamentals of CNNs and RNNs - October 2022
- Machine Learning For All - September 2022
- Introduction to Data Science in Python - January 2023
- Cyber-Physical Systems: Modeling and Simulation - July 2023
- Computer Simulations - July 2023
- Engineering Practices For Building Quality Software
- Big Data, Artificial Intelligence, and Ethics - March 2024
- Software Development Processes and Methodologies - November 2022
- Visual Elements of User Interface Design - September 2022
- Mathematical Thinking in Computer Science - August 2022
- Introduction to Computer Programming - September 2021

REFERENCES

John Paul Q. Tomas
- jpqtomas@mapua.edu.ph

Angelica Isla
- angelica.isla@factset..com

SKILLS

Data Science
- Utilized Python for tasks such as image classification, extracting features from audio, performing regression and clustering analyses, sentiment analysis, and crafting predictive models.
- Applied R for tasks including data preparation, preprocessing, conducting statistical analyses, and constructing models.
- Conducted data manipulation, retrieval, and ETL processes using SQL.
- Worked with leading data science libraries such as Pandas, NumPy, Matplotlib, Scikit-learn, and Seaborn.
- Employed Google Colaboratory and JupyterLab for the development of data science notebooks.
- Extracted valuable insights, and crafted visualizations and dashboards using tools like Power BI, SAS Viya, SAS EG, Oracle Analytics Cloud, Tableau, and Microsoft Excel.
- Established a real-time data streaming pipeline utilizing technologies such as Zookeeper, Apache Kafka, Hadoop, Hive, Spark, Cassandra, WSL, and Python.
- Engaged in data warehousing and ETL processes through Talend Open Studio. - Developed databases with PHPMyAdmin and MongoDB.

Artificial Intelligence
- Implemented technologies like OpenCV, PyTorch, and TensorFlow for computer vision, machine learning, and deep learning projects.
- Utilized YOLOv7, DeepSORT, CNN, and EfficientNet for tasks in object detection, tracking, and classification.
- Employed Roboflow for image processing, augmenting data, and modeling.

Software Development and Programming
- Developed web applications with HTML5, CSS, and JavaScript for the front end, and PHP for back-end operations.
- Gained basic understanding of Haskell for functional programming and Prolog for logic programming.
- Utilized IDEs like Microsoft Visual Studio, Apache Netbeans, DevC++, and PyCharm for coding.

Soft Skills
- Proficient in communicating in both English and Tagalog.
- Effective collaborator and team player.
- Critical thinker with a problem-solving mindset.
- Demonstrates business acumen.
- Able to handle high workloads and pressures.