



Wayne Matthew A. Dayata

Programmer, Web Developer, Data Scientist



CONTACT ME

+63 998 490 1696

wdayata@gmail.com

20100215.github.io

github.com/20100215

linkedin.com/in/wayne-matthew-dayata/

2-A Kamagong Street,
Lahug, Cebu City 6000,
Philippines

EDUCATION

Bachelor of Science in Computer Science

University of San Carlos
2020 - Present

Senior High School - Science, Technology, Engineering, and Mathematics (STEM) Strand

Philippine Christian Gospel School
2018 - 2020

TECHNICAL INTERESTS

- Data Science and Analytics
- Machine Learning / Deep Learning
- Full Stack Web Development
- Project Management
- Competitive Programming

WORK EXPERIENCE

Developer Intern

Sep 2023 - Jan 2024

Full Scale (Gigabook Inc.) | Cebu City, Philippines

- Co-developed an event management system for internal company use.
- Key features: User authentication, account management, event creation, display, and visibility toggling, employee invitation and pre-registration, time logging via manual entry and QR codes, attendance report, raffle generation and winners logging, email announcements, audit trail, and event feedback
- Increased overall employee satisfaction with easier accessibility to company activities and faster registration and attendance logging.
- Roles: Full stack development, database design, API design
- Technology stack: Next.JS, Next UI, C#, ASP.NET Web API, MS SQL Server
- Applied the Scrum framework for project management using Trello board.

RESEARCH

Automated Blast Cell Detection of Acute Lymphoblastic Leukemia Using a Stacking Ensemble of Convolutional Neural Networks

Nov 2023

Conference: **IEEE International Conference on Communication,
Networks, and Satellite (ComNetSat), 2023**

Award received: **Best Paper (Data Science and Artificial
Intelligence track)**

DOI: [10.1109/COMNETSAT59769.2023.10420732](https://doi.org/10.1109/COMNETSAT59769.2023.10420732)

- Co-developed a deep learning model to classify a white blood cell as normal lymphocyte or cancerous lymphoblast which can aid pathologists in their clinical diagnosis for patients suspected of Acute Lymphoblastic Leukemia.
- Technology stack: Python, Scikit-learn, TensorFlow, Keras, Tkinter
- Employed data augmentation, transfer learning, and threshold optimization.
- Model garnered accuracy, precision, and weighted F1-scores of over 95% when tested on 4,522 cells from 40 subjects in the dataset.

PROJECTS

Carolinian Chatbot

Mar 2024 - May 2024

- Deployed a question answering chatbot application in Streamlit using the Llama 3 model and Retrieval Augmented Generation (RAG) that automatically responds to common concerns and inquiries regarding the rules, policies, and guidelines of the University of San Carlos such as academic matters and directory of offices.
- Context referenced from student handbook, enrollment guide, and other documents.
- Technology stack: Python, Langchain, ChromaDB, HuggingFace, Streamlit

Talent Management System

Oct 2022 - Jan 2023

- Spearheaded a team of 30 developers for a class project that allowed users to add and customize the talent and services offered. news, past and upcoming events to be featured across the pages.
- Utilized RobotFramework (Python) for automated testing.
- Led in partitioning the project into modules distributed to the developers as well as in performing automated tests before merging branches.
- Managed team progress and provided guidelines on the tickets and cards for efficient development workflow using Trello.
- Technology stack: Vue.JS, TailwindCSS, Laravel, MySQL

LANGUAGES/ FRAMEWORKS

- Python
- HTML, CSS, JS
- C
- PHP
- C++
- SQL
- Java
- ASP.NET
- C#
- NumPy
- Keras
- Pandas
- SciPy
- Matplotlib
- Selenium
- scikit-learn
- RobotFramework

SOFT SKILLS

- High degree of initiative
- Able to work within tight schedules
- Good problem analysis skills
- Produce excellent outputs
- Good record keeping skills
- Strong presentation skills
- Leadership and teamwork skills
- Good interpersonal skills

REFERENCES

Gerard D. Ompad

Data Science Professor, Department of Computer, Information Sciences, and Mathematics, University of San Carlos
Data Scientist and AI Engineer, DTN

Email : gdompad@usc.edu.ph
Mobile: +639238271687

Christine D. Bandalan

Laboratory Head, Department of Computer, Information Sciences, and Mathematics
University of San Carlos

Email : cdbandalan@usc.edu.ph
Mobile: +639176294118

Jayharron Mar C. Abejar

Software Developer, Full Scale (Gigabook Inc.)

Email : jabejar@fullscale.ph
Mobile: +639163529411

Quiz Management System

Mar 2021 - Aug 2021

- Created a tool to simulate examinations as a form of review and practice for students with several quiz moderation settings along with question format options and customizations.
- Quiz analytics and statistics are also emphasized and available to quiz creators.
- Deployed using EducationHost with 100 users accessing the application.
- Technology stack: Bootstrap 5, JavaScript, jQuery, PHP, MySQL

COURSES AND CERTIFICATIONS

Dec 2023	Data Literacy Certification - DataCamp
Dec 2023	AI Fundamentals Certification - DataCamp
Aug 2023	Data Analytics Fundamentals - DataSense Analytics
Nov 2022	Google Cloud Essentials - Google Cloud Skills Boost
Nov 2022	Data Catalog Fundamentals - Google Cloud Skills Boost
Nov 2022	BigQuery Basics for Data Analysts - Google Cloud Skills Boost
Nov 2022	BigQuery for Machine Learning - Google Cloud Skills Boost
Oct 2022	PhilNITS Fundamental IT Engineers (FE) Examination Passer

ACHIEVEMENTS

Awardee - The Outstanding Graduates, 38th University of San Carlos (USC) Excellence Awards

May 2024

- A formal recognition given to graduating USC students who showed exemplary academic (Scientia) and leadership (Virtus) performance as well as active volunteerism in off-campus community service activities (Devotio).

Champion, Cebu Schools Athletic Foundation, Inc. (CESAFI) Computer Quiz Bowl College Division

May 2023

- Preliminaries - Assessment about the core computing topics including Computer Systems, Information Processing and Security, System Design and Development, System Operations and Maintenance, Data Structures, Algorithms, data Science and Artificial Intelligence, and other IT Trends.
- Finals - Programming challenge with algorithmically complex problems

2nd Place, Project SPARTA Open Data Challenge for Cauayan City, Philippines

Nov 2022

- Applied various data analytics methodologies and generated helpful recommendations from the provided datasets containing the Barangay statistics to prepare a platform for the LGU to access all these data for research and investment purposes.
- Identified correlating measures with direct impact to the economic development and wellbeing of the Barangays in Cauayan City.
- Identified underperforming Barangays through clustering.

6th Place, DICT 7th Philippine Startup Challenge Regional Finals - Region 7

Oct 2022

- Proposed a public transport information system mobile application providing centralized and real-time information of all the PUV locations and their routes to improve the Filipino citizens' overall commuting experience.

LEADERSHIP ENGAGEMENTS

President, Computer and Information Sciences Council, University of San Carlos

Aug 2022 - Jul 2023

- Led and organized activities within the department's 700 students to further enhance the students' well-being and learning experience through practical workshops, programming tutorial sessions, and E-Sports tournaments.
- Initiated digital literacy outreach programs in two local communities focusing on basic computer servicing, productivity, and data analysis tools.
- Delegated tasks to the 32 officers of the council (core team and program ambassadors) and provided counsel on all aspects of the projects.
- Supervised the projects of the council to ensure the quality and effectiveness of all activities to the student body.
- Effectively reduced student attrition rate by 50% during the term.