

# WAYNE MATTHEW A. DAYATA

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## PROFILE

With a unique blend of technical and analytical skills, I am passionate in using data and technology to create impactful solutions with proven experience of good teamwork, leadership, and agile management. I am proficient in data wrangling, analysis, and visualization to extract actionable insights that inform business decisions. I am also skilled in full-stack web development, wielding frameworks to build user-friendly interfaces and backend solutions that address business requirements.

## TECHNICAL PROFICIENCIES

<b>Data Science and Analytics</b>	Python, SQL, Power BI, Pandas, Seaborn, Scikit-learn, Keras, LangChain, HuggingFace, Selenium, BeautifulSoup
<b>Web Development</b>	HTML, CSS, JavaScript, C#, ASP.NET, Next.JS, PHP, Firebase
<b>Other Languages</b>	C, C++, Java, R, Visual Basic
<b>Other Technologies</b>	Git, Canva, Notion, Trello, Google Workspace, Microsoft 365

## EDUCATION

### Bachelor of Science in Computer Science

University of San Carlos [Website](#) [↗](#)

Aug 2020 - Jun 2024

*Cebu City, Philippines*

- Magna Cum Laude (GPA: 1.24)
- Awardee, The Outstanding Graduates — 38th USC Excellence Awards (May 2024)

## EXPERIENCE

### Software Developer Intern

Full Scale (Gigabook Inc.) [Website](#) [↗](#)

Sep 2023 - Jan 2024

*Cebu City, Philippines*

- Co-developed an event management system using Next.JS, ASP.NET Web API, SQL Server.
- Designed and implemented the database and backend API components of the web application.
- 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 flow.

## RESEARCH PUBLICATIONS

### Automated Blast Cell Detection of Acute Lymphoblastic Leukemia

Using a Stacking Ensemble of Convolutional Neural Networks

DOI: 10.1109/COMNETSAT59769.2023.10420732 [Link](#) [↗](#)

May 2023 - Nov 2023

*Malang, Indonesia*

- Co-developed a deep learning model using Python, Scikit-learn, TensorFlow, Keras, and Tkinter 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.
- 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.
- Presented the results in the 12th IEEE International Conference on Communication, Networks, and Satellite and awarded the best paper for the Data Science and Artificial Intelligence Track out of 50+ presented papers.

## PROJECTS

### Carolinian Chatbot (Python, Langchain, ChromaDB, HuggingFace, Streamlit) [Link](#) [↗](#)

Mar 2024 - May 2024

- 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.
- Deployed via Streamlit cloud for access to 1000+ university students and staff.
- Reduced overall school-related inquiries in the department by 70% and face to face visits in the office by 50%, effectively reducing the workload of the personnel.

**Data Express** (Python, Pandas, PyGWalker, SciPy, Pinguoin, Streamlit) [Link ↗](#) May 2024 - Jun 2024

- A web-based interactive data analysis application supporting .csv and .xlsx files with the following core features: (1) Dataset profiling with filtering options prior to displays of summary statistics, distributions per column, and relationships between columns; (2) Tableau-like visual exploration interface; (3) Statistical experimentation and hypothesis testing.

**Intelligent Systems** (Python, Pandas, Scikit-learn, SciPy, Keras, PyTorch, SHAP, LIME) [Link ↗](#) Aug 2023 - Dec 2023

- A compilation of all the projects and notebooks covering the fundamentals of data science and machine learning: Exploratory data analysts, multilayer perceptrons, normalization and standardization, autoencoders, feature selection, SHAP, LIME, model selection and hyperparameter tuning, forest methods, clustering, UNET, inception model

**Talent Management System** (Vue.JS, TailwindCSS, Laravel, MySQL, RobotFramework) [Link ↗](#) Oct 2022 - Jan 2023

- A web-based content management system application designed for talent agencies to view and manage talents events, and services. Visitors may view the website to see the currently featured events and services while talents may apply and initiate postings for admin approval.
- Led in partitioning the project into modules distributed within a team of 30 developers as well as in performing automated tests. Managed team progress and provided guidelines in tickets for efficient development workflow using Trello.

**HomeHero** (HTML, CSS, JS, PHP, MySQL) [Link ↗](#) Sep 2022 - Dec 2022

- A web-based platform that aims to match and book homeowners with a worker who is qualified to solve household issues such as plumbing, carpentry, electricity and gardening. Home owners can post a job order to advertise their issues and search for a worker who fits their needs, while the worker can view and accept job orders that match their qualifications once they are verified in the platform.

**DURC - Instant Messaging Web Application** (C#, ASP.NET, SQL Server, SignalR) [Link ↗](#) May 2022 - July 2022

- A chat application which utilized the capability of Hubs to receive real-time messages as well as to check for users that are online. The app also has separate sections for direct messages and group chats are, keeping the threads more organized compared to ordinary chat applications like Messenger.

**Quiz Management System** (HTML, CSS, JS, PHP, MySQL) [Link ↗](#) Mar 2021 - Aug 2021

- A web application hosting quizzes from users and 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 customization (multiple choice with single or multiple answers, fill in the blanks, true or false, and essay).
- Quiz analytics and summary statistics are available to quiz creators to gauge performance of the takers.
- Deployed for a year using EducationHost with 100+ users; over 40 quizzes created with 600+ quiz session records.

## CERTIFICATIONS

**Data Analyst Associate**, DataCamp [Link ↗](#) Jun 2024

- Related skills: Exploratory data analysis, communication and visualization, statistical experimentation (Python, SQL)

**Data Engineer Associate**, DataCamp [Link ↗](#) Jun 2024

- Related skills: Data extraction, cleaning, validation, preparation, and management (Python, SQL)

**AI Fundamentals Certificate**, DataCamp [Link ↗](#) Dec 2023

- Related skills: Generative AI, Prompt Engineering, AI Ethics

**Passer, Fundamental Information Technology Engineer Examination** [Link ↗](#) Oct 2022

Philippine National IT Standards (PhilNITS), ITPEC Member

- Related skills: Software programming and development, analysis and evaluation of information system strategy

## LEADERSHIP

**Lead Facilitator and Speaker, Power BI Workshop Series** [Link ↗](#) May 2024 - Jun 2024

Developer Connect (DEVCON) - Cebu Chapter

*Cebu City, Philippines*

- Introduced the basics and intermediate features of Power BI Desktop to a professional audience of 30 attendees with introductory data analytics background in a workshop spanning two sessions.
- Covered the essential steps of the extract, transform, and load (ETL) process including data cleaning, transformation, and aggregation, column pivoting, calculated measures via DAX and quick measures, and reports creation through appropriate charts, tales, cards, and KPI.

- Led and organized 15+ 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 a total of four digital literacy outreach programs to the marginalized youth of 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.

## AWARDS

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**Awardee, The Outstanding Graduate** [Link](#)  
38th University of San Carlos 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).

**Best Paper, Data Science and Artificial Intelligence Track** [Link](#)  
12th IEEE International Conference on Communications, Networks, and Satellite, Malang, Indonesia

Nov 2023

- Presented the research paper entitled "Automated Blast Cell Detection of Acute Lymphoblastic Leukemia Using a Stacking Ensemble of Convolutional Neural Networks" with outstanding results to the conference committee.

**Champion, Computer Quiz Bowl College Division** [Link](#)  
Cebu Schools Athletic Foundation, Inc. (CESAFI)

May 2023

- Emerged first place out of ten colleges across Cebu in both the written component (assessment on technology concepts and best practices covering system design and development, data structures and algorithms, data science and artificial intelligence, and other IT Trends) and practical component (competitive programming).

**2nd Place, Open Data Challenge for Cauayan City, Philippines** [Link](#)  
Department of Science and Technology (DOST) Philippines and Project SPARTA

Nov 2022

- Applied various data analytics methodologies and delivered helpful recommendations from the provided datasets containing the statistics in each town to prepare a platform for the local government unit 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 (towns) in Cauayan City, and also identified underperforming Barangays through clustering.

**6th Place, Philippine Startup Challenge 7 Regional Finals** [Link](#)  
Department of Information and Communications Technology (DICT) Philippines - Central Visayas

Nov 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.