

Fredyandu Rombelayuk

ICT Teacher - Educator | Data Analyst

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About Me

Data-driven IT professional with a strong passion for transforming education through technology. As an experienced ICT educator, I have designed and implemented three interactive digital modules—programming, web design, and graphic design—positively impacting over 1,000 students across three educational institutions. By analyzing both quantitative and qualitative data from rubric-based evaluations and aligning them with the semester's basic competencies, I uncovered an 80% increase in student creativity and computational thinking. These insights enabled me to develop actionable recommendations that enhanced learning outcomes and engagement. Currently, I am advancing my technical expertise through RevoU's Full Stack Data Analyst Program, where I'm mastering tools such as Google Sheets, Excel, SQL, Python, Tableau, and Power BI.

Working Experiences

ICT Teacher, Yayasan Notre Dame

July 2023 – Present

A Catholic educational foundation initiated by the Congregation of the Sisters of Notre Dame, which serves in education in several countries.

- Preparing relevant and effective ICT teaching materials to improve 80% of students' creativity and visualization, algorithmic thinking, and problem-solving abilities by creating practical assignments and projects to hone students' web and graphic design skills.
- Assess students' strengths and areas for improvement by analyzing teaching rubrics alongside project outcomes, enabling the delivery of targeted, data-informed feedback while deepening instructional decision-making and reflective teaching practices.
- Develop and evaluate innovative STEM projects by analyzing their impact on students' IT-related skills and creativity through quantitative and qualitative methods to identify key success factors.
- Encourage student participation in ICT competitions through final projects, STEM projects, and material proficiency tests, and analyze the results to identify performance trends, areas for improvement, and effective strategies to enhance student achievement.

Data Analyst Associate, RevoU x Hasna Medika Hospital

February – June 2025

The RevoU Data Insights Project is a four-week case study that focuses on analyzing a customized data set to address a specific business challenge. Conducted under the full supervision of RevoU Academy, this project hones analytical skills, problem-solving skills, and delivers actionable insights. Project-based learning (PBL) with a Virtual Internship utilizes ongoing cases from RevoU's corporate clients. Data analysis is conducted by identifying data analysis principles, tools, and frameworks that underpin effective data analysis processes, thereby providing business insights for the client. This project includes the following details:

- Employee data analysis to examine employee behavior across all divisions, positions, and hospital branches.
- Patient data analysis to examine the number of patients by chronic illness, BPJS users, and medication purchases by disease type, gender, and hospital branch.

ICT and Coding Teacher, Yayasan Ignatius Edukasi Cendekia Palembang

July 2022 – June 2023

A national private educational foundation with a top 5 ranking in the province

- Developed relevant and effective ICT teaching materials to improve student understanding by 20% by getting an average final exam score above 80 points.
- Led the ICT laboratory and ensured the availability of 20% of teaching materials from the basic competencies that have been prepared to meet the teaching materials that are relevant to the school program.
- Disseminated interesting coding competition programs and increased student participation by 30% in the number of students per batch participating in coding competitions.
- Improved students' ability to design dynamic websites that are informative and interactive to attract 10% more viewers than the total visitors during the exhibition.

ICT Teacher, Yayasan Bina Bakti Bandung

August 2015 – July 2022

The best Christian educational foundation, with the number of students entering national state universities in the top 10.

- Updating 20% of teaching materials, exam material, and student projects to be more varied and following the latest needs.
- Coordinating extracurricular coding activities to prepare 30% of the total extracurricular students to participate in competitions.

Project Experiences

Human Capital Insights : Analysis of HR Dynamics At Hasna Medika Hospital

May – June 2025

- Analyzed pharmacy service data to evaluate COGS and utilization trends, identifying ~15% potential HPP reduction through chronic vs non-chronic drug stock optimization and BPJS insurance service mapping.
- Created an interactive Power BI dashboard to visualize monthly drug utilization and COGS, enabling real-time decision-making through BPJS insurance segmentation and custom filters.

Driving Pharmacy Excellence: COGS, Rates, and Service Utilization Analysis at Hasna Medika Hospital

March – April, 2025

- Analyzed HR claim data across 13 hospitals, revealing ~12% gender-based disparity and peak claims among age 35–44 through demographic-service segmentation.
- Built a data model integrating HR employee records with claims data, enabling per-employee claim analysis and streamlined cross-hospital comparisons.

Optimizing Stock Preparation: Strategic Demand Forecasting for New Hub Efficiency & Customer Satisfaction

Feb – March, 2025

- Analyzed seasonal patterns in product shipments using SARIMA & LSTM methodologies, improving forecast accuracy and identifying a projected 23% demand surge in August across 5 distribution hubs.
- Created Python-based visualizations (Matplotlib & Seaborn) to compare forecasted vs actual demand across hubs, revealing a 700% stock surge in Frozen Meat and aiding category-level inventory planning.

- Customer Segmentation and Behavior Analysis at ESM Internationale Kuala Lumpur**

January 2025
- Analyzed customer segmentation based on gender and customer status, so that recommendation programs can be developed for customers based on customer behavior.
 - Optimized the value of field rental transactions so that they contribute to increasing revenue in the sports facilities category.

- E-commerce Website Development (HTML, CSS3) - ICT Final Project**

May, 2024
- Designed an interactive e-commerce website with easy navigation and attractive appearance using HTML and CSS3.
 - Designed and implemented various product menu categories on an e-commerce-themed website—spanning sports, food & beverages, beauty, automotive, footwear, gadgets, and clothing—resulting in a fully responsive and user-friendly display across devices.
 - Optimized the development of user interface (UI) and user experience (UX) designs to ensure an optimal shopping experience for users.

Education

Universitas Kristen Maranatha Bandung

August 2008 – July 2014

Bachelor of Computer (S.Kom)

Thesis: *“Hotel Booking Reservation with CRM Implementation at Toraja Prince Hotel”.*

RevoU

September 2024 – January 2025

Non-Degree Program - Full-stack Data Analysis

Learning how to analyze, filter, and clean the dataset, to create data visualizations based on the cleaned dataset, and to find insights and provide recommendations for the company based on the final analyzed result.

Additional Information

Data Analytic Skills

: Google Sheets, Excel, XLMiner, SQL by BigQuery, Python by Google Collab, Tableau, and Power BI.

Supporting Skills

: Adobe Illustrator, Gravit by Corel, Canva, Visual Basic, Web Design (HTML, CSS), Scratch, and Microsoft Office

Soft Skills

: Leadership, Computational-Thinking, Analytical-Thinking, Easy to Learn, and Detail-Oriented.

Certifications

1. Certificate of Excellence - Full-Stack Data Analyst, RevoU Academy

2. Certificate of Achievements - Full-Stack Data Analyst, RevoU Academy

3. Certificate Mini Course Data Analysis, Revou Academy

4. Professional Development Training for IGCSE ICT & Computer Science Teachers, Mentari

5. Webinar Bebras "Computational Thinking", Institut Teknologi Bandung

May 2025

February 2025

August 2024

February 2021

October 2020