RYAN FERNANDA
Technical Data Professional

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📍 South Sumatera, Indonesia

EDUCATION

University of Bengkulu   Bengkulu City, Bengkulu
Informatics/Computer Science, Minor in Intelligent Systems   2024
GPA: 3.85/4.00
- Award: Valedictorian (Best Graduate) - 56th Graduation Ceremony of the Faculty of Engineering.
- Relevant Coursework: Data Mining, Artificial Intelligence, Natural Language Processing, Statistics, Database, Cloud Computing, Operating System, Software Engineering, Research Methodology.
- Thesis: Prediction of the Safety Factor of Shallow Foundations Against Earthquakes Using Kolmogorov-Arnold Networks and Its Implementation on a Web Platform.

State Vocational High School 3 Lubuklinggau   Lubuklinggau City, South Sumatera
Computer and Network Engineering   2018
- Award: 1st Place Overall for 3 years in a row, Highest UNBK-SMK Score Achiever in Lubuklinggau City 2018.
- Areas of Study: Computer Network Administration

PROFESSIONAL EXPERIENCE

Oracle x Fresh Graduate Academy   Online/Remote
Trainee - Database Design & Database Programming with SQL   Aug 2024 – Sep 2024
- Acquired practical skills in database design, SQL programming, and Oracle database tools.
- Selected as one of the Top 3 (out of 30) participants that earned a free Oracle database certification opportunity.

AWS x Fresh Graduate Academy   Online/Remote
Trainee - Cloud Architecting   Feb 2024 – Mar 2024
- Studied AWS services, cloud architecture principles, and cost optimization for efficient cloud-based solutions.
- Gained expertise in the design, implementation, and management of scalable and reliable cloud infrastructure.

Google x Startup Campus   Online/Remote
Trainee - Data Analytics   Feb 2023 – Jul 2023
- Learned data analytics concepts and skills, including SQL, Excel, R, Tableau, and statistical analysis.
- Became the fastest progressing participant in the Google Data Analytics Professional Certificate program.

University of Bengkulu   Bengkulu City, Bengkulu
Teaching Assistant   Jan 2021 – Jun 2023
- In **Advanced Database** Course: Taught the students in-depth about the SQL queries for relational database management system using MySQL and BigQuery, with a 100% pass rate.
- In **Coding (Programming)** Course: Explained new students about basic programming workflows and algorithms using C++ and Python; Guided how to design a website using CMS Wordpress; Resulting in a 98% pass rate.
- In **Operating System** Course: Taught the students about how the operating system works and how to interact with it; Explained the student about GUI, CLI, also bash scripting; Resulting in a 100% pass rate.
- In **Computer Networking** Course: Taught the students about basic computer networking; Guided the students to make some network simulations using Cisco Packet Tracer; Resulting in a 100% pass rate.

Artificial Intelligence Center Indonesia   Online/Remote
AI Talent - Internship Program for Indonesian AI Talents   Feb 2022 - Jul 2022
- Studied the AI and data science principles and algorithms, as well as database management using PostgreSQL.
- Built a sentiment analysis system for phone products review using SVM algorithm with 88% accuracy.

Orbit Ventura Indonesia   Online/Remote
Trainee - Artificial Intelligence for GenY Program   Aug 2021 - Jan 2022
- Learned about AI research method, exploratory data analysis, machine learning, and Python programming.
- Built CryptoCuy!: Cryptocurrency Price Prediction System using LSTM algorithm.
- Managed the plans, discussions, and coordination amongst the final-project group members.

Office of Partnership and International Affairs, University of Bengkulu   Bengkulu City, Bengkulu
IT Volunteer   Jan 2020 – Aug 2021
- Managed all IT facilities for every event organized by the institution (e.g. international meetings and webinars).
- Designed posters and certificates for every activity held by Office of Partnership and International Affairs.

Telkom Indonesia, Tbk - KANDATEL Lubuklinggau Lubuklinggau, South Sumatera
Student Intern Dec 2016 – Mar 2017
- Assisted the IndiHome fiber modems installation process and administration.
- Supported the warehouse staff to change, register, and set up the customer's damaged WiFi modem.

ORGANIZATIONAL EXPERIENCE

Informatics Student Association (HIMATIF) University of Bengkulu
Organizational Advisory Board Oct 2021 – Oct 2022
- Analyzed and evaluated every activity that have implemented by the organization.
- Recommended the best steps when the organization is facing with a problem and/or whenever needed.

Head of Human Resource Development Oct 2020 – Oct 2021
- Led every discussion and event that carried out by Human Resource Development division.
- Reviewed the member's aspirations in order order to make the appropriate regeneration program.

Human Resource Development Staff Apr 2019 – Mar 2020
- Provided aspirations for the events planning and implementation that organized by the division.
- Assisted in the planning and implementation of training programs, workshops, and seminars.

Engineering Research Community (ERCOM) University of Bengkulu
Communication and Information Staff Jan 2019 – Jan 2020
- Actively participated in publishing activities and managing the organization's social media.
- Designed posters and certificates for every activity held by the organization.

Student Organization of State Vocational High School 3 Lubuklinggau
Chairman Jul 2016 – Jul 2017
- Led all student events, activities and discussions in the State Vocational School 3 Lubuklinggau.
- Actively participated in improving the quality of students through various strategic programs.

RESEARCH EXPERIENCE

Integrating Multiple Linear Regression Analysis and Machine Learning Models to Predict the Bearing Capacity of Strip Footings on Sandy Clay Slopes
Transportation Infrastructure Geotechnology, Vol 12(2), 90.
- Published by Springer Nature on 5 February 2025.
- DOI:10.1007/s40515-025-00544-5

Predicting Seismic Safety Factors of Shallow Foundations Using Kolmogorov-Arnold Networks: A Comparative Machine Learning Approach
*Manuscript completed, currently under editorial review.

CERTIFICATION

Oracle Certified Foundations Associate, Database (1Z0-006) 2024
Skills: Oracle Database, Database Management System, Database Design, SQL.

DataCamp Certified Associate Data Engineer 2024
Skills: Data Management, Database Design, Data Modeling, SQL, PostgreSQL.

DataCamp Certified Associate Data Scientist 2024
Skills: Data Management, Statistical Experimentation, Modeling, Machine Learning, Python Programming.

DataCamp Certified Associate Data Analyst 2024
Skills: Data Management, Exploratory Data Analysis, Statistical Experimentation, SQL, Data Visualization.

Meta Database Engineer Professional Certificate 2024
Skills: Database Design, RDBMS, SQL, MySQL, Version Control, Bash, Linux, Python Programming.

Google Advanced Data Analytics Professional Certificate 2023
Skills: Data Science, Exploratory Data Analysis, Statistical Analysis, Python Programming, Machine Learning.

Google Business Intelligence Professional Certificate 2023
Skills: Data Pipelines, Data Warehousing, Data Visualization, BI Reporting, Data Quality, ELT & ETL.

Google Data Analytics Professional Certificate 2023
Skills: Data-driven Decision Making, Data Cleansing, SQL, Data Visualization, R Programming, Data Analysis.

SKILLS OVERVIEW

Technical Expertise: Data Science, Data Analytics, Database Administration, Machine Learning, Big Data.

Programming: Python, SQL, R, PHP, Javascript, HTML, CSS, Java, C++, Bash Scripting.

Tools: Tableau, Microsoft Office, Google Workspace, Linux/Windows/MacOS.

Languages: Bahasa Indonesia (Native), English (Advanced), Sundanese (Advanced).