

# TAQI AKBAR TAUFIQURRAHMAN

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A 5th-semester Computer Science student with a keen interest in database management and optimization. Experienced in designing, developing, and managing databases, with a focus on SQL and relational databases. Hands-on experience with MySQL, PostgreSQL, and database normalization. Previous part-time experience as a technician and customer service representative, with strong problem-solving skills and the ability to communicate technical information effectively. Eager to apply my database skills in a professional setting and contribute to data-driven projects.

## WORK EXPERIENCE

### Technician & Customer Service Representative

DEC 2020 - DEC 2022

#### DM computer, Mojokerto, Jawa Timur

- Performed hardware repairs (PCs and laptops), including component replacement and troubleshooting.
- Provided technical support to customers regarding hardware and software installation.
- Offered advice and recommendations on hardware upgrades based on customer needs.
- Managed sales transactions and assisted customers in selecting appropriate products.

## EDUCATION

### Bina Nusantara University

2022-Present

#### Bachelor of Computer Science

##### Streaming: Database System

- Relevant coursework: Data Analytics, Data Visualization, Database Management Systems, Big Data , Data Structures, Algorithms, Object-Oriented Programming, Database Design, Data Mining, Cloud Computing, Human and Computer Interaction.

### Senior High School Taruna Nusa Harapan

2019-2022

Natural Science

## ACADEMIC PROJECT

### Vacation Service Booking Application

- Developed a web-based booking system for travel services, including hotel reservations and transportation booking.
- Designed the database schema to store booking details, customer information, and service availability using MySQL.
- Implemented complex SQL queries for managing bookings, checking room/seat availability, and generating invoices.
- Utilized PHP and JavaScript to build the front-end and back-end of the application.

### Pet Service Booking Application

- Created a booking application for pet services, such as grooming, boarding, and veterinary appointments.
- Designed an efficient database to handle service bookings, customer details, pet records, and appointment schedules.
- Optimized queries to manage high volumes of data efficiently and ensure fast response times.
- Used React for front-end development and Node.js with MongoDB for backend development.

### Emotional Support Chatbot (Curhat Bot)

- Developed a chatbot for providing emotional support, designed to simulate a conversation with users seeking a place to share their feelings.
- Integrated Natural Language Processing (NLP) to recognize user input and generate appropriate responses.
- Built a Python application using the ChatterBot library and integrated it with a simple user interface.
- Stored user conversations and feedback in a MySQL database for analysis and improvement of the chatbot's responses.

### Sales Data Analytics Platform

- Built a data analytics platform that integrated sales data using PostgreSQL to generate business insights and reports.
- Designed database schema to store large datasets and ensure efficient query performance.

### Bookexchange

Developed an e-commerce website for book sales using Laravel 11 as the main framework. The website allows users to search, purchase, and manage their book collection. Key features include:

- Book Search: Implemented fast and efficient book search using Elasticsearch.
- User Management: User registration, login, and profile management.
- Shopping Cart: Features to add and manage books in the shopping cart.
- Payment Integration: Integrated with payment gateways like Midtrans or Stripe for transaction processing.
- Admin Panel: Admin dashboard to manage products, categories, and track orders.

## TECHNICAL SKILLS

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### • Data Analytics & Visualization:

Python (pandas, numpy, matplotlib, seaborn, plotly, scikit-learn)

R (ggplot2, dplyr, tidyr, shiny)

SQL: Proficient in writing complex queries, joins, and aggregating data for analysis.

Data Visualization: Experienced in creating charts, graphs, and interactive dashboards.

### • Big Data Technologies:

Apache Hive: Proficient in querying large datasets with HiveQL.

PySpark: Experienced in distributed data processing with PySpark and managing large-scale data transformations.

### • Database Management:

MySQL, PostgreSQL, MongoDB: Experience designing databases, optimizing queries, and ensuring data integrity.

NoSQL: Familiar with working with document-based databases (MongoDB).

### • Programming Languages:

Python, R, JavaScript, PHP, Java.

### • Development Tools:

Git, GitHub, Jupyter Notebooks, VS Code, Eclipse.

### • Data Processing & Cleaning:

pandas, tidyr for data cleaning and manipulation in Python and R.