

ROHAN BOSE | CORE JAVA DEVELOPER

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PROFESSIONAL SUMMARY

Dynamic and results-driven professional specializing in **Core Java development, SQL, Generative AI, Natural Language Models (NLMs), and Large Language Models (LLMs)**. Skilled in designing scalable software systems and deploying AI-driven applications, including personalized models like "My-Pet-Dog" using advanced technologies such as Dreambooth and Stable Diffusion. Proven ability to integrate strong programming and database management expertise with innovative AI applications to solve complex real-world problems.

Key Highlights:

- Extensive experience in Core Java development, with a solid foundation in object-oriented programming, multithreading, and data structures.
- Proficient in SQL, including database design, optimization, and querying to manage and analyze complex datasets effectively.
- Practical expertise in generative AI and machine learning, delivering end-to-end solutions with measurable success, including 16+ downloads on recent AI models.
- Adept at developing robust, user-centric software systems by integrating Java, SQL, and AI capabilities into scalable architectures.
- Strong collaborator with experience leading multidisciplinary teams and driving innovative solutions from concept to deployment.

Seeking to leverage my combined expertise in Java development, SQL, and AI technologies in a challenging role to build cutting-edge, impactful solutions.

CORE COMPETENCIES

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| ✓ Core Java | ✓ Generative AI and NLP |
| ✓ Code structure & architecture | ✓ Data Structures and Algorithms |
| ✓ Web Design | ✓ Content Writing |
| ✓ Front-end & back-end web development | ✓ Prompt Engineering |

PROFESSIONAL EXPERIENCE

TeamEverest(a NGO)

Content Writer(English Curriculum Writing | Feb,2024-Mar-2024

- Learn lots of things.
- Enhances the content writing skills.

RELEVANT PROJECTS

Railway Reservation System

Core JAVA and JAVA API's | Mar 2024 - Apr 2024

Designed and implemented an intuitive Railway Reservation System that simplifies booking, canceling, and viewing train tickets. The system utilizes Object-Oriented Programming (OOP) principles and the Java Swing API to deliver a user-friendly graphical interface. Integrated MySQL as the backend database to securely store and manage passenger information.

Key Features:

- Ticket Booking and Cancellation: Streamlined processes for passengers to book and cancel train tickets with just a few clicks.
- Dynamic Data Management: Used MySQL to store and retrieve passenger details, ensuring secure and efficient data handling.
- Real-Time Ticket Viewing: Enabled users to view the status of their booked and cancelled tickets, providing clear insights into their reservation history.
- OOP Concepts: Applied core principles such as inheritance, polymorphism, encapsulation, and abstraction to enhance code modularity and reusability.
- Java Swing for GUI: Designed an interactive and visually appealing graphical interface for seamless navigation and usability.

Achievements:

- Reduced the complexity of ticket reservation workflows, enhancing user experience.
- Ensured secure data storage with database design optimized for scalability and performance.
- Leveraged **Java Swing** to create a professional-grade desktop application.

Text to Image Model Generator

Generative AI and NLP | Feb 2024-June 2024

This project, titled **My-Pet-Dog**, involves a **Dreambooth** model created by me during the "**Build your own Gen AI model**" session conducted by NxtWave. The model is trained to generate creative outputs related to the concept of a pet dog using a **text-to-image Generative AI** approach.

Key highlights of the project include:

- It leverages Stable Diffusion, a **Large Language Model (LLM)** framework, and related pipelines.
- The project explores Generative AI applications, blending creativity and personalization.
- It is published under the **CreativeML OpenRAIL-M license**.
- The project has seen moderate engagement, with 16 downloads in the last month.

This project demonstrates the practical application of **Natural Language Models (NLMs)** and **Generative AI**, showcasing the potential of personalized AI model training with Dreambooth.

EDUCATION

2026-2022 | Kalinga Institute of Industrial Technology
CGPA - 8.26

TRAININGS/COURSES

Python And Sql
Exelr, Online
Nov 2023 - Dec 2023
Gained core knowledge in advanced Python and SQL

Git And Github
Exelr, Online
Jan 2024 - Feb 2024