

KUMAR RITURAJ SINGH

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SUMMARY

Software Engineer with **2 years** of experience in **Java, Spring Framework, and database management**. Skilled in building scalable web applications, Developing & integrating APIs, and collaborating with teams to deliver innovative & simple solutions of complex problems. Proficient in object-oriented programming, with a passion for problem-solving, continuous learning, and contributing to the success of dynamic and innovative teams and organization.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, HTML, CSS
- **Frameworks:** Spring Boot, Spring MVC, Hibernate, Microservices, Hugging face, Generative AI, LangChain, LlamIndex.
- **Tools & Platforms:** Git, Maven, Eclipse, VSCode, Jupyter Notebook, STS, RestAPI, Agile methodologies.
- **Database Management:** MSSQL, MySQL, MongoDB.
- **Additional Interests:** Data Structures & Algorithms, Machine Learning.

EXPERIENCE

Software Engineer

Bhavna Corp, Noida, UP

Dec 22 – Jan 2024

- **Developed** and implemented robust backend solutions utilizing Java, Spring Boot, and Spring MVC, ensuring **scalability, efficiency**, and seamless integration with front-end systems.
- **Integrated third-party APIs** into financial applications, enhancing system functionality in **payment processes**.
- **Optimized** database management using **JDBC** and **ORM** frameworks for seamless data handling.
- Collaborated with **cross-functional** teams to ensure alignment with business requirements.

PROJECTS

Loan Approval Application

Mar 23 – Jan 2024

- **Implemented a loan approval application** to streamline the loan processing workflow, **reducing approval time by 30%**.

#Java, #Spring Boot, #MySQL

- **Designed and optimized automated decision-making algorithms** for evaluating loan eligibility **based on financial data and credit scores**.
- **Integrated third-party credit scoring systems** into the loan approval application to enhance **decision accuracy and improve customer experience**.
- **Built a user-friendly interface** for applicants to submit loan requests and track approval status **in real-time**.

- Collaborated with cross-functional teams to ensure compliance with regulatory requirements in loan processing.

Software Engineer Trainee Bhavna Corp, Noida, UP July 22 – Dec 2022

- Gained hands-on experience in **Java**, **Hibernate**, and **Spring Boot**.
- Developed and executed **unit tests** to ensure software quality.
- Contributed to database schema design and managed data using **MySQL**.
- Implemented **SonarQube** for improved application performance.

EDUCATION

B.Tech (IT) Chandigarh Engineering College July 2018 – July 2022

CGPA: 8.0/10

PROJECTS

Railway Reservation System Nov 2022 – Mar 2023

- **Developed and implemented** a comprehensive railway reservation system to manage ticket bookings, cancellations, PNR generation, and scheduling.
#Java, #MYSQL
- **Designed and optimized** relational database schemas to store passenger details, train schedules, and reservation data efficiently with **MySQL Workbench**, **Draw.io**.
- **Integrated user authentication** to ensure secure access and protect sensitive user data with **Spring Security**, **OAuth 2.0**.
- **Utilized SQL queries** to fetch, update, and manage reservation data effectively in real-time.

Sentiment Analyzer Dec 2021 – Apr 2022

- **Developed a machine learning-based sentiment analysis model** to classify text into positive, negative, and neutral sentiments.
#Python, #Tensorflow
- **Pre-processed large datasets** by cleaning, tokenizing, and vectorizing textual data for accurate analysis.
- **Implemented deep learning techniques**, including recurrent neural networks (**RNNs**) and **LSTMs**, to improve sentiment classification accuracy.
- **Integrated the sentiment analyser into an application**, providing real-time sentiment feedback for text inputs.
- **Visualized results** using libraries like **Matplotlib** and **Seaborn** to represent sentiment trends and model performance metrics.

CERTIFICATIONS & ACHIEVEMENTS

- **Java Programming** Udemy.
- **Basics of Quantum Computing** IBM.

- Solved over **300 competitive** programming challenges in platforms i.e **HackerRank, CodingNinja & GeeksforGeeks.**
- **Mastering Generative AI with OpenAI, LangChain, and LlamaIndex.**

ONGOING LEARNING

- **Generative AI:** Text Preprocessing, Word Embedding, Transformer Architecture.
- **OpenAI Prompt Engineering** and **Hugging Face models.**

PROJECTS

Text Summarizer

Mar 24- Jun -2024

- Developed a Python-based Text Summarizer using Natural Language Processing (NLP) techniques to generate concise and meaningful summaries from large textual data.
#Python, #Pytorch, #Hugging face, # google-t5/t5-11b
- **Implemented multiple summarization techniques**, including Extractive Summarization and Abstractive Summarization using pre-trained transformer models like **google-t5/t5-11b T5** model.
- **Integrated advanced machine learning algorithms** to preprocess text, including tokenization, stop-word removal, and lemmatization, ensuring accurate results.
- Achieved **90%** accuracy on summarization benchmarks.

DECLARATION

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

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(Hyderabad)

(Kumar Rituraj Singh)