Murtuza Husain

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ABOUT ME

Energetic professional with a B.E. in Information Technology and 1.3+ years as a Software Engineer at Avaya. Currently pursuing an M.S. in Computer Science at the University of Bonn and working as a student assistant at ZB Med. Proven ability to drive results through ambitious collaboration, fostering innovation in dynamic settings. Combining academic excellence with hands-on experience, I bring a versatile skill set and a commitment to high-quality software solutions. Eager to contribute technical expertise to innovative projects in Computer Science.

WORK EXPERIENCE

06/01/2025 – CURRENT Bonn, Germany
STUDENT ASSISTANT COMPUTER SCIENCE ZB MED

Working on Comparative Evaluation of NER Techniques for Agricultural Entities.
Evaluating and comparing various NER techniques such as rule-based, prompting and fine-tuning on an agricultural dataset to determine their relative effectiveness and identify the optimal strategy for domain-specific entity extraction.

01/03/2024 – 31/12/2024 Cologne, Germany
STUDENT ASSISTANT COMPUTER SCIENCE GESIS – LEIBNIZ INSTITUTE FOR THE SOCIAL SCIENCES

Worked on research project which involved training machine learning models to perform named entity extraction of machine learning terminologies such as MlModel model mentions, dataset mentions, reference links etc. along with the relations present between them on computer science research mentions. Worked on creating scripts to perform coreference resolution on Annotated data.

11/07/2022 – 29/09/2023 Pune, India
SOFTWARE ENGINEER AVAYA

Worked as a developer and drove the design and implementation of a robust software ecosystem:

1. **API Design (OpenAPI 3.0):**
   • Orchestrated a REST API adhering to OpenAPI 3.0, ensuring seamless communication and integration.
2. **Kafka Data Flow (AVSC):**
   • Designed AVSC schemas for Kafka data flow, optimizing processing efficiency.
3. **API Documentation and Use Case Diagram:**
   • Crafted detailed API documentation and use case diagram for clarity.
4. **Microservices Development:**
   • Engineered Java, Spring, and PostgreSQL microservices for scalability.
5. **Bulk Agents Feature:**
   • Enhanced feature for bulk agent management via Excel files using Apache POI.
6. **Spring Data JPA Repositories:**
   • Designed efficient Spring Data JPA repositories, optimizing data operations.
7. **Unit Testing and QA:**
   • Ensured code reliability through rigorous JUnit testing for API and services.
8. **Microservices Deployment (Kubernetes):**
   • Deployed microservices on Kubernetes using Azure CLI and Helm commands.
9. **Issue Resolution:**
   • Swiftly addressed UAT and production issues, prioritizing tasks based on impact.

Key Skills:
   • Project Management: Jira, Jenkins
   • Tech Stack: Java, Spring Boot, Kafka, Microservices, PostgreSQL, Liquibase

- Cloud/Containerization: Azure, Kubernetes
- Security: Keycloak
- Data Manipulation: Apache POI

01/07/2020 – 01/08/2020
DATA SCIENCE & ANALYTICS INTERN THE SPARKS FOUNDATION

In a one-month Data Science internship, I delved into machine learning, mastering techniques such as Simple Linear Regression, Multiple Linear Regression, Decision Trees, and other advanced methodologies. This immersive experience expanded my knowledge and honed my ability to translate theoretical concepts into impactful solutions.

EDUCATION AND TRAINING

01/10/2023 – CURRENT Bonn, Germany
MSC COMPUTER SCIENCE University of Bonn

22/08/2018 – 07/07/2022 Pune, India
BACHELOR OF ENGINEERING - INFORMATION TECHNOLOGY (AI AND ML HONORS) CGPA : 9.74/10 Pune Institute of Computer Technology

30/12/2022 – CURRENT
MICROSOFT CERTIFIED AZURE FUNDAMENTALS Microsoft

Website https://www.credly.com/badges/c05f1211-d88d-4529-8bf1-ff76e728372c

01/09/2020 – 24/12/2020
DEEPLEARNING.AI DEEP LEARNING SPECIALIZATION deeplearning.ai

Website https://www.coursera.org/account/accomplishments/specialization/2PW8FYWC2YNP

LANGUAGE SKILLS

Mother tongue(s):   **HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Technical Skills

Java | Python | JavaScript | C++ | C | Machine Learning | MySQL | CSS | Hibernate | HTML | Data Structures | Microservices | PostgreSQL | JPA | Apache Kafka | Unit Testing | JSON | REST | Spring Boot | Microsoft Azure | Developing web applications and web technologies | Maven | Software Development | Natural Language Processing | Source control: Git | Identifying and debugging issues

Soft Skills

Adaptability | Empathy | Collaboration | Teamwork | Good Communication | Attention to detail | Critical thinking | Problem-solving | Time management | Patience

PROJECTS

Tourist Spot Recommendation System

In my culminating engineering project, I conceptualized and built a dynamic Full Stack Web Application with a distinctive goal – assisting users in discovering optimal tourist spots. The project's innovation centered around the

incorporation of advanced Machine Learning algorithms, particularly a hybrid recommendation system. By seamlessly integrating collaborative filtering and content-based filtering, the application delivered personalized and well-informed suggestions to users. This undertaking not only highlighted my technical proficiency in Full Stack development but also underscored my dedication to harnessing cutting-edge technologies for pragmatic, user-centric solutions.

Medicare(Android Application)

Designed and developed an Android app simplifying doctor location based on user preferences. The app enables users to find doctors or hospitals by region and specialization offline, enhancing convenience and showcasing my commitment to accessible, user-friendly applications.

Pune Metro Booking System(Web Application)

Developed a user-friendly Full Stack Web App as a key part of a DBMS project. Powered by ReactJS, MySQL, and NodeJS, it enables seamless booking, cancellation, and viewing of Pune Metro tickets.

Weather App using Vanilla JavaScript, HTML, CSS

Engineered an intuitive Weather App with a user-centric design using JavaScript. The project marked a significant milestone as I delved into API integration, mastering the art of retrieving real-time weather information and presenting it seamlessly to users

HONOURS AND AWARDS

5th Rank in second year B.E University Exam – Savitribai Phule Pune University