MOHIT RAJ LOKWANI

Masters' Computer Science Student at Rhineland-Palatinate Technical University

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PROFESSIONAL EXPERIENCE

Werkstudent - Knowledge Graphs & Semantic Technology
DFKI - German Research Center for Artificial Intelligence

📅 Dec 2024 - Present   📍 Kaiserslautern, Germany

- Implementing methodology for advanced inferencing and reasoning on knowledge Graph in Neo4j.
- Developing manufacturing ontology for smart factory and digital twin environment using OWL and RDF.
- R&D on different knowledge engineering tools suited for managing industrial ontologies and creating semantically enriched knowledge graph.

Internship - Cloud Solution Trainee (AWS & Azure)
BOSCH GmbH

📅 Dec 2023 - May 2024   📍 Stuttgart, Germany

- R&D on cost optimization auto-deletion of AWS resources (AWS NUKE).
- Developed & deployed AWS deletion strategy, cutting cloud costs by 20%.
- Constructed an architecture on AWS to support access management of cloud resources.
- Debugged and managed Terraform scripts for provisioning data management Azure infrastructure (IaaS).

Werkstudent - Full-Stack Developer (Angular)
BOSCH GmbH

📅 May 2023 - Oct 2023   📍 Stuttgart, Germany

- Developed Angular UI components for Connected Charging Cables customer portal.
- Built and maintained web apps for EV charging projects on AWS along with SonarQube quality control.

Werkstudent - SharePoint Developer (ReactJs)
Camdere Consulting GmbH

📅 January 2022 - March 2023   📍 Ulm, Germany

- Managed Azure AI Vision and administered SharePoint online using SPFx.
- Developed SharePoint sites for 4 clients, integrating Azure OCR.
- Created multiple Microsoft power automate flows to meet the customer requirements.

Application Software Developer - Cloud IoT developer
Robert Bosch Engineering and Business Solutions

📅 January 2020 - September 2021   📍 Bengaluru, India

- Designing & developing 6 web apps using Angular (front-end and back-end).
- Full-stack developer, developing REST APIs, predictive analysis of the application, constructing front-end architecture, and serverless functions.
- Maintained MongoDB M20 cluster tier in production environment.
- Mastered AWS cloud, Data lakes, CI/CD, Dockers, Beanstalk, Route 53, VPC, CloudFront, S3, Autoscaling, Elastic Cache, MongoDB M20.

SKILLS AND TOOLS

- JavaScript • Angular • NodeJs • MongoDB • Python • Containerization • Docker • REST • Knowledge graphs • SpringBoot • AI • CI/CD • Hadoop • DevOps • AWS • Data Visualization • LLMs • SQL • Swagger • Git • Kubernetes • Golang

PROJECTS

Master's Thesis - Knowledge Graph Enrichment
BOSCH and DFKI

📍 Stuttgart, Germany

- Aligning manufacturing and supplier data with manufacturing ontology.
- Enriching manufacturing knowledge graph using advanced inferencing and reasoning rules.
- Aligning manufacturing and supplier data with manufacturing ontology.
- Implemented GPT-4 LLM layer on semantically enriched knowledge graph.

Capstone Project - FarmSync
Fraunhofer and John Deere

📍 Kaiserslautern, Germany

- Non-JD to JD ISO converter for 7 brands.
- Containerized the application in Docker and deployed it on AWS Beanstalk.
- Worked as a requirements engineer and back-end developer.

Phantom Connected Machines & Phantom Connected Elevators
BOSCH

📍 Bengaluru, India

- PCM is a Visualizing system of any kind for machines using IoT-based NILM devices.
- Developed API to work around sensor data.
- Data visualization and predictive analysis(Beta).

Trac360 and Travis (Oracle JET)
BOSCH

📍 Bengaluru, India

- Award-winning IoT solution used for real-time tracking of parts manufactured by BOSCH.

Project Engineer Trainee (Spring Boot Developer)
Robert Bosch Engineering and Business Solutions

📅 January 2019 - June 2019   📍 Bengaluru, India

- IoT-based tracking solution based on the Geofence technique gives real-time alerts on the Web and Mobile apps. IoT devices like LoRa and R-Pi.

EDUCATION

Master of Science, Computer Science
TU Kaiserslautern

📅 November 2021 - Present   📍 Kaiserslautern, Germany

Thesis - Enriching knowledge graph & implementing LLM layer on KG.

Bachelor of Technology, Computer Science & Engineering
Lovely Professional University

📅 2015-2019   📍 Jalandhar, India

Vendor Inventory Portal
BOSCH

📍 Bengaluru, India

- A cloud-based application that enables the suppliers to update the everyday stock of 18 manufacturers. Based on Typescript.

ACHIEVEMENTS

- MongoDB M001 and MongoDB M103 certification from MongoDB University.
- AWS GameDay winner, by AWS and BOSCH.
- Kafka-based seismic data pipeline abstract selected for 2024 AAPG Conference, Muscat, Oman.

LANGUAGES

- English: Fluent
- German: Beginner (A1)