



Khadeeruddin Mohammed

PROFESSIONAL SUMMARY

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Software Developer with over 4+ years of experience in designing and developing digital platforms, intelligent transport systems, and mobility management solutions within academic, regional, and European research projects. Currently working at CTLup – Research Centre for Transport and Logistics at Sapienza University of Rome.

Specialized in Spring Boot microservices architecture, REST APIs, React-based frontends, cloud-native development, monitoring systems, and simulation-based logistics modelling. Contributed to national and Horizon Europe projects focused on sustainable mobility, road safety monitoring, freight optimization, and smart logistics.

Link: <https://www.ctlup.com/team/mohammed-khadeeruddin>

WORK EXPERIENCE

CTLUP - Department of Civil, Construction and Environmental Engineering

City: Rome | **Country:** Italy

[08/2022 – Current]

Software developers

Contributing to the design and implementation of digital platforms and intelligent information systems supporting mobility management, logistics innovation, and road-safety monitoring at regional, national, and European levels.

Technical Responsibilities:

- Design and development of full-stack web applications (Spring Boot, React, REST APIs).
- Microservices architecture implementation.
- System monitoring integration (Prometheus, Grafana).
- Simulation modelling and logistics optimization support.
- DevOps practices using Docker, Jenkins, Maven.
- Cloud deployment (AWS, Google Cloud).

Major Projects Contributed :

Sapienza Sustainable University Mobility Plan (SUMP)

Development of Sapienza's Sustainable Mobility Portal supporting strategic mobility planning and sustainable transport initiatives.

Piano Viabilità Ciampino

Digital platform supporting the drafting of the General Urban Traffic Plan and General Parking Plan for the Municipality of Ciampino.

ARSANet 2 – Sapienza Third Mission Initiative

Collaborative platform fostering knowledge sharing between universities and research centres for road safety analysis and solution identification.

CeMoSS Marche

Development of the Road Safety Monitoring Centre for the Marche Region, integrating data collection, analytics, and visualization dashboards.

CEREMSS Lazio

Road Safety Monitoring Centre supporting the Lazio Region with advanced monitoring and reporting tools.

PANDORAS (Italian Fund for Applied Sciences – FISA 2023)

System supporting freight distribution planning and optimization in multimodal urban transport networks.

BIO-INTEL-MOB (Horizon Europe)

European project focused on transforming peri-urban mobility into a climate-neutral, data-driven ecosystem.

Funded under European Commission – Horizon Europe.

HCL – Healthy Cold Logistics

- Supported supply chain optimization activities.
- Cobot programming and robotic simulation (RoboDK).
- Simulation modelling (AnyLogic).
- Developed Human–Machine Interfaces using Spring Boot and Thymeleaf.

WakencodeTechnologies

Country: India

[11/2020 – 01/2022] **Application developer**

- Worked in Salesforce-based application environment focused on business process automation and CRM solutions
- Developed and maintained backend services and integrated them with Salesforce APIs
- Collaborated with front-end developers and designers to deliver responsive user interfaces

Wipro

City: Hyderabad | **Country:** Italy

[03/2016 – 05/2017] **Process management - IT**

- Handled IT support and process automation for enterprise clients
- Monitored internal systems and executed quality assurance procedures
- Assisted in data management, reporting, and documentation for compliance audits

ICICI Bank

City: Hyderabad | **Country:** India

[04/2015 – 09/2015] **Bank teller**

- Performed day-to-day banking transactions and customer service duties
- Handled account queries, deposits, withdrawals, and loan documentation

EDUCATION AND TRAINING

[05/2023 – 04/2024] **Post-Graduate**

University of Genoa

City: Genoa | **Country:** Italy | | **Final grade:** 108/110

[Current] **Master's in Computer Science Engineering**

Sapienza University of Rome

City: Rome | **Country:** Italy |

[10/2010 – 04/2014] **Bachelor in Computer Science Engineering**

SKILLS

Html, Java, CSS | Javascript(Nodejs, ExpressJs) | JAVAscript | HTML, CMS (Wordpress), Javascript | Frameworks: Spring, Spring Boot | Web Development | Git | React Framework | JSON | HTML5 | Postman | RabbitMQ / Kafka | RESTful api | MySQL | HTML | Agile (Scrum) | Pack Office, Eclipse, Jupiter Notebook, Visual Studio, Dataiku, Grafana, Prometheus, Hugging face | Swagger & API Generators | Jenkins, Maven, Git, Docker | SONARQUBE | RoboDK - Simulation and Offline Programming of industrial robots | Anylogic Simulation Software | Platform : AWS Cloud | Google Cloud

PROJECTS

MicroServices_Project

- This repository contains a demo project showcasing a microservices-based application, designed to provide a hands-on understanding of microservices architecture and implementation.
- The project consists of an API Gateway, Config Server, Discovery Server, and two microservices: Student and School.
- Built using **Spring Boot**, **Thymeleaf**, and **MySQL** with RESTful APIs.

Link: https://github.com/khadeer0503/MicroServices_Project.git

WebScraping

- Project for WebScraping...Extracting the e-charging points location in Rome

Link: <https://github.com/khadeer0503/WebScraping.git>

Springboot_SSO

- Springboot_SSO - single sign-on using springboot and Keycloak

Link: https://github.com/khadeer0503/Springboot_SSO.git

Blogging-Application

- In this project, a Personal Blog application has been implemented.
- The application allows the administrator to log in and post articles, pictures, and code to the blog and general users can read and comment on the blogs.
- The contents of this are organized as follows:
 - An overview of Spring Boot and Hibernate frameworks, System design, and functionalities of the Personal Blog with the application.

Link: <https://github.com/khadeer0503/Blogging-Application.git>

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** C1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Italian

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Hindi

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

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

Rome