

# Umar Farooq

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 LinkedIn |  GitHub

 Al-Rehman Garden Phase IV - Lahore

## OBJECTIVE

Motivated Spring Boot developer with expertise in developing scalable monolithic and microservices-based applications. Also skilled in using Angular, React, Node.js, and .NET. Proficient in designing and implementing RESTful APIs, integrating relational (MySQL, PostgreSQL) and NoSQL databases (MongoDB), and developing AI-powered features such as natural language processing (NLP) and predictive analytics. Strong ability to write clean, maintainable code and deliver solutions that align with business requirements.

## SKILLS

- Programming Languages:** Java, Python, JavaScript, SQL
- Web Technologies:** Angular, React, Spring Boot, .Net, Node.js, REST APIs, Microservices
- Database Systems:** MySQL, MongoDB
- Data Science & Machine Learning:** scikit-learn, Natural Language Processing (NLP), Machine Learning, Data Preprocessing, Model Evaluation
- DevOps & Version Control:** Git
- Specialized Area:** Problem Solving, Time Management, Strong Communication

## PROFESSIONAL EXPERIENCE

### • Blue Eagle Software House

Aug 2024 - Jan 2025

Mianwali, Pakistan

- Web Developer Intern*
- Assisted in developing and maintaining responsive web applications using modern frameworks and technologies.
  - Contributed to backend API integrations and database management tasks, ensuring seamless data flow between client-side and server-side components.
  - Collaborated with the senior development team to debug, test, and deploy web solutions, gaining hands-on experience in full-stack development and project workflows.

### • ROX TRAVELS

March 2024 - May 2025 - Remote

Karabuk, Turkey

- Web Developer*
- Developed responsive tour guide websites for Rox Travels and Nova Travels (Turkey), integrating seamless booking systems and comprehensive travel information.
  - Designed and developed a desktop application for managing records and financial transactions at Rox Travels.

## EDUCATION

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### University Of Mianwali

2021 - 2025

Mianwali, Pakistan

BS Software Engineering

\* GPA: 3.64/4.00

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### Abdul Razaq Fazaia Collage

2019 - 2021

Mianwali, Pakistan

Pre Engineering

\* Grade: 83%

## PROJECTS

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### Real-time Chat Application :

Tools: [Spring boot, Websocket, Angular]

Built a real-time chat room application with instant messaging features.

Implemented live updates to ensure seamless user communication.



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### User Management System :

Tools: [Spring boot, React, Spring Security]

Developed a secure system for user authentication and authorization.

Ensured protected access to resources based on user roles and credentials.



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### Contact Manager Application :

Tools: [Spring boot, Angular, Spring Security]

Collaborated with a team to develop a secure contact management application.

Implemented features for adding, updating, and organizing user contacts.



- \* **JWT Security System :**

*Tools: [Spring boot, React, Spring Security, JWT ]*

Developed a JWT-based authentication system for secure user verification. Enabled role-based access control to protect and manage API endpoints.
- \* **Ecommerce Store :**

*Tools: [Spring boot ,React ,MY SQL ]*

Built a modern eCommerce web app enabling users to browse, search, and purchase products seamlessly with responsive design. Integrated dynamic product management, cart functionality, and smooth user experience using React
- \* **PulseFeedback :**

*Tools: [MERN]*

Developed a MERN stack feedback management application with real-time form submission and MongoDB storage. Implemented a clean React UI with API integration to collect and display user feedback efficiently.
- \* **AI - Projects :**

*Tools: [ Python, pandas, ML Developed an ML-based seismic analysis tool using regional data, ]*

Developed an ML-based seismic analysis tool using regional data to predict earthquake likelihood. Also developed agriculture chat bot, medical chat bot and crop prediction model.

## FINAL YEAR PROJECT (AI-POWERED PROJECT MANAGEMENT SYSTEM)

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- Tools: [ Spring boot ,Angular ,MY SQL ,Spring Security ,JWT ,Microservices ,Web sockets ]
- \* Developed a scalable project management platform using **Java Spring Boot (backend)** and **Angular (frontend)** following a **microservice-based architecture**.
  - \* Enabled **project planning, task scheduling, resource allocation, and time tracking** to streamline team workflows.
  - \* Integrated **real-time chat and comment systems** for enhanced collaboration and communication. **machine learning models** to automatically generate tasks from project descriptions, categorize them (e.g., frontend, backend, database, testing), and assign them to employees based on skill matching for optimized task distribution . .
  - \* Built an **AI-driven task classifier** to categorize work into **frontend, backend, database, AI, and testing** domains.
  - \* Designed **role-based dashboards** for managers, team leads, and team members to tailor the user experience.
  - \* Secured the application using **JWT-based authentication** and **role-based access control** for data integrity and privacy.
  - \* Delivered **advanced reporting tools** and **secure file submission** features to support accountability.
  - \* Added **real-time in-app and email notifications** to keep users updated on task assignments and project progress.
  - \* **Introduced a smart voice assistant feature** that enables users to interact with the application using voice commands. The assistant can perform key actions such as opening specific projects, retrieving project details, and providing task updates—enhancing accessibility, hands-free operation, and overall user engagement.

## CERTIFICATIONS & ACHIEVEMENTS

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- \* **Spring Framework Certification** 2024

*Simplilearn*

  - Completed professional certification on core Spring Framework concepts including Spring Boot and MVC.
  - Enhanced backend development capabilities using Spring for scalable enterprise applications.
- \* **Spring Boot Certification** 2024

*Simplilearn*

  - Gained hands-on experience with REST APIs, microservices, and secure application development using Spring Boot.
  - Strengthened understanding of dependency injection, data access with JPA, and Spring Security integration.
- \* **Front-End Web Design Certification** 2024

*Coursera*

  - Gained proficiency in HTML, CSS, JavaScript, React and Angular for building user-friendly UIs.
  - Developed practical skills in creating interactive and modern front-end web interfaces.
- \* **Event Manager – CodeQuest Programming Competition** 2024

*University of Mianwali*

  - Managed and organized a campus-wide competitive programming event, ensuring smooth coordination.
  - Demonstrated leadership, teamwork, and event planning skills under academic settings.

