

Ali Raza

Computer Science Student

I am a Computer Science student at Namal University with a solid foundation in software development and hands-on experience in software engineering, Python development, and front-end technologies. I am passionate about building impactful, user-centred solutions and thrive in collaborative, fast-paced environments. My technical skills, combined with a problem-solving mindset, enable me to contribute effectively to real-world projects. I am always eager to learn, grow, and take on new challenges in the evolving tech industry.

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EDUCATION

Bachelor of Computer Science

Namal University, Mianwali

11/2021 - Present

Courses

- OOP
- Database
- Data Structure
- Analysis of Algorithm
- Machine Learning
- Artificial Intelligence
- Data Analysis
- Software engineering
- Web Application Devp.
- Cloud Computing

WORK EXPERIENCE

Freelancing

Fiverr

06/2024 - Present

Achievements/Tasks

- Delivered freelance services in Python debugging and troubleshooting, developing modern web design for clients.
- Collaborated with international clients, managing end-to-end development from backend logic to front end integration.

Participated in Datafest

Namal University, Mianwal

07/2024

Achievements/Tasks

- Presented my earthquake data analysis project at a workshop attended by national and international speakers, showcasing real-world insights derived from data.
- Gained valuable exposure to how data analysis is driving innovation and solving real-world problems across various industries
- Get to know about the advancements of the international community in the field of data analysis and they are benefiting the world.

SKILLS

Python

Html

CSS

Javascript

MySQL

React.js

React Native

Scikit-learn

MongoDB

Pandas

Matplotlib

Seaborn

OpenCV

Powerpoint

Figma

Dart

Android Studio

Canva

UML

Node.js

Tailwind CSS

Flutter

Presentation

Communication

PERSONAL PROJECTS

Farmer-to-Farmer Knowledge Sharing Mobile App (FYP)

- **Industrial Partner: NETSOL, NAMAL Agri-tech**
- Developed an innovative mobile application using **React Native, Firebase**, and **Node.js** to empower farmers through a smart Agri-tech community platform featuring real-time AI chatbot support, discussion forums, and one-to-one chat functionality.
- Implemented a proactive notification system to alert farmers about potential regional crop diseases, enhancing preparedness and agricultural decision-making.

Book Hive (MERN Stack based Web Application)

- Built a responsive **MERN** stack web application with **role-based access control (RBAC)** for Book Donors, Borrowers, and Librarians to facilitate book donation and borrowing, promoting literacy and community sharing.

URDU OCR (Character recognition)

- Developed a handwritten Urdu text recognition system using **Python, TensorFlow**, and **PyTorch** by creating a custom dataset of over 52,000 word samples. Designed a **hybrid CNN-LSTM deep learning model** to accurately recognise Urdu alphabets from image-based inputs, significantly enhancing OCR performance for regional languages.

Earthquake Data Analysis

- Conducted an in-depth analysis of 2023 global earthquake data using **Python, Seaborn**, and **NumPy** to uncover patterns, trends, and correlations. Utilised clustering algorithms to identify high-risk geographical regions and critical factors contributing to earthquakes.

LANGUAGES

Urdu

Native or Bilingual Proficiency

English

Full Professional Proficiency

INTERESTS

Web Development

Competitive Programming

Machine Learning