

# Mursal Furqan Kumbhar

## Computer System Engineer

I aspire to make technology reach the common people and to utilize it to assist the masses. My interests are mainly community-focused, hence, areas like Front-End Development, React, Machine Learning, Web Development, Design Thinking, and Critical analysis fascinate me.



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## EDUCATION

### Masters of Science in Computer Science

Sapienza Universita di Roma

09/2022 - Present

Rome, Italy

### Bachelors in Computer Systems Engineering

Mehran University of Engineering and Technology

11/2016 - 11/2020

CGPA 3.77

## WORK EXPERIENCE

### Research Fellow

Mathlab, SISSA

02/2023 - 11/2023

Trieste, Italy

Achievements/Tasks

- Creating a complex computational web-server for real-life simulations of Medical and Industrial problems.
- Created ARGOS (<https://argos.sissa.it/>), ATLAS (<https://atlas.sissa.it/>) & Odyssea web servers.
- Also created the official website of a SISSA Startup, FAST Computing (<https://www.fastcomputing.net/>).

### Associate Software Engineer

Diya Interactive AB

02/2021 - 02/2022

Karachi, Pakistan

Achievements/Tasks

- QriosityNet.com Web (React) & Mobile (R. Native) Apps.
- InstaCate & Jubilee Insurance Web Portal.
- Automation Testing/API Testing.

### Backend Intern

#### Diya Interactive AB

12/2020 - 02/2021

Karachi, Pakistan

Achievements/Tasks

- Worked on the back-end logics of different platforms.
- Created ATM Demo.
- Created a pilot project for a video calling platform.

## LEADERSHIP AND VOLUNTEER

### Rotaract Club of Badin (02/2020 - 03/2021)

Secretary General

### IEEE Computer Society (07/2019 - 09/2020)

Chairperson

### AWS User Group, Karachi (02/2022 - Present)

Lead/Organizer

## SKILLS

React

Flask

Python

Django

Dash

Plotly

AWS

ES7

JS

SaSS

Git

Automation

Selenium

Communities

Bootstrap

Linux

## PERSONAL PROJECTS

### Personal Portfolio (11/2022 - 01/2023)

- React-based portfolio <https://mursalfk.github.io/React-Portfolio>

### Gradient Generator (05/2022 - 05/2022)

- Created a Gradient Generator which gives you a unique gradient every time. Live Demo at <https://random-hex-gradient.netlify.app/>

### WebChat App

- A Web-based Live Video Chat Application based on Agora.io SDK having capability to house multiple users at a single time with live audio and video streaming.

### Detecting & Relieving Anxiety OTG Using ML Techniques

- AI-Based android application with the help of Microsoft technologies to help detect, diagnose, and treat anxiety in a normal person.

### Django-based ATM Prototype

- Django-based ATM Prototype with full-fledged working database and strong security along with the avid and dynamic database.

### Certificate Generation using Python

- Generating 100s of Certificates in PDF, JPEG, or any other required format having customized names with a single click using Python.

### Heart Disease Detection using ML Techniques

- ML Model to predict heart disease in a potential patient with an accuracy of 87.88%.

## PUBLICATIONS

### Image Denoising using Autoencoders (07/2022)

AIKP'22 - Woxsen University, Hyderabad, India

### Heart Disease Prediction using Machine Learning Algorithms (12/2020)

INCCST'20 - Mehran UET, Jamshoro, Pakistan

### PIA Accidents Analysis Using Naive Bayes Classifier (12/2020)

INCCST'20 - Mehran UET, Jamshoro, Pakistan

### Industrial Robotic Claw for Cottage Industries (01/2019)

iCoMET'19 - Sukkur IBA University, Pakistan

## HONORS & ACHIEVEMENTS

### IELTS (01/2022)

Listening 8.5 - Reading 6.5 - Writing 7.0 - Speaking 6.5 - Overall 7.0