

# Irfan Syed

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Software engineer with 4+ years of experience developing wide range of Web & Mobile applications. Developed Examination Management Information System (EMIS) used by CDPM-UOP & Bacha Khan University Charssada severing as Programmer analyst Aga Khan University Hospital Karachi, Pakistan

## EXPERIENCE

### Aga Khan University Hospital – *Programmer Analyst*

Jan 2017 – PRESENT, Karachi Pakistan

Working on different Research projects to improve the health of maternal & child across the globe, funded by Bill & Melinda Gates, Grand challenges, GAVI, USAID

#### Responsibilities

- Coordination with Researchers, Public health Scientist, Data Scientist to ensure project protocols and data collection tools meet project's needs, statistical and scientifically
- Developing intelligent mobile applications for data collection, Adaptive learning & Monitoring
- Developing Web applications to monitor data collection & ensure data quality
- Developed mobile android apps for citizens of underdeveloped countries to efficiently locate all health services within their immediate location.
- Ensure the data integrity of research projects and provide supervision for data quality, data management, and cleaning

#### Most Proud of

- Developed Intelligent Web application for automation of data collection, Data cleaning & Data Analysis
- Developed AI-based application to record caregiver & vaccinator conversation(Urdu) at EPIcenter and convert it to digital Data using Speech to Text

### Brains Software Enterprises, Peshawar – Software Engineer

Mar 2013 – Dec 2016, Peshawar Pakistan

#### Responsibilities

- Lead Admission & examination module of the educational enterprise resource planning (ERP)
- lead examination management information system (EMIS) implemented in Bacha Khan University Charssada
- Developed shipment & delivery management system for courier company

## EDUCATION

### University of Peshawar – *BS-Computer Science*

Jun 2011 – April 2016

### Islamia College Peshawar – *FCS-Computer Science*

Jun 2009 – April 2011

## SKILLS

Java

Android

.Net

JavaScript

Node.JS

Python

C/C++

MSSQL

PostgreSQL/GIS

Firebase

MongoDB

Google Cloud

Google Maps

Speech to text

HMTL/CSS

Bootstrap

## CERTIFICATIONS

### Quantitative Research Analysis

CMIE Aga Khan University Karachi, 2019

### Analyzing data using Python

Johns Hopkins University Dubai, 2018

### Web development in Node.Js

Udemy 2018

## PROJECTS GLIMPSE

### **MasoomCare 2019 -Web & Mobile App**

Developed a structured speech recognition AI platform to collect and record information from caregivers bringing their children to EPI vaccination centers, and extract data from the caregiver & vaccinator episode. This project was founded by GAVI

### **LATOON 2019 -Web & Mobile App**

Developed Intelligent Web application for automation of data collection, Data cleaning & Data Analysis,  
This is an advanced form of Kobo toolbox(ODK)

### **House Hold Baseline 2019 -Web & Mobile App**

This studied was initiated in 14 districts of Pakistan to find out the reason for neonatal & maternal deaths under the supervision of the University of Manitoba and Bill & Malinda gats foundation

### **Health Facility Assessment 2019 -Web & Mobile App**

This is studied was initiated in 4 countries Afghanistan, Pakistan, Tajikistan & Tanzania to find out what are the reason for maternal deaths in public health facility this project was founded by Great Grand challenges

### **National Nutritional Survey 2018 -Web & Mobile App**

This project began under the joint collaboration of The Aga Khan University with the Ministry of National Health Services Pakistan, UK Aid, UNICEF, PCRWR, and PBS. The data was collected across Pakistan

### **LEAPS Scale Up** (Learning and Educational Achievements in Pakistan Schools)

This project begins and currently working in most of the cities of Pakistan. It was initiated under the collaboration with HARVARD Kennedy School and The Aga Khan University.

### **VASA Study 2018 -Web & Mobile App**

A verbal/social autopsy study to improve estimates of the causes and determinants of stillbirths, neonatal, child adolescents and maternal mortality in Pakistan was conducted under the collaboration with John Hopkins University and The Aga Khan University

### **DSS-Census 2017-Web & Mobile App**

Demographic Surveillance System-Census is currently working in Karachi, Pakistan and will work for more than 10Years. It's an intended The Aga Khan University project working under joint collaboration with Bill Gates Foundation.

### **Willows Impact Evaluation-Line Listing 2017 -Web & Mobile App**

This study is being conducted in collaboration with the RIPS at the University of Ghana, The Aga Khan University in Pakistan, The Kilimanjaro Christian Medical University College in Tanzania and Bahçeşehir University in Turkey.

### **Examination Management Information System(EMIS)**

#### **CDPM-UOP & BACHA KHAN University 2016**

MIS for University Examination Section to manage functionalities related to examination conducting, secrecy managing, affiliated institute supervising, hall assignment, date sheet creation, bill management, marks manipulation and generating various kinds of reports in the form of summaries, detailed marks certificates, and degrees. In summary,

## WORKSHOPS & SEMINARS

### **AI in HealthCare**

USAID Zanzibar  
Tanzania, 2019

### **Qualitative Research Methodology**

CMIE Aga Khan  
University Karachi,  
2018

### **Google IO**

Habib University  
Karachi, 2019

### **Technology & Healthcare**

CCIT CMIE Aga Khan  
University Karachi,  
2018

### **CCIT hackathon**

CCIT CMIE Aga Khan  
University Karachi,  
2018