

# Sohail Khan

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## EDUCATION

### UET, LAHORE

#### BS IN COMPUTER SCIENCE

Grad. July 2020 | Lahore, PK  
CGPA 3.3/4.0

### GOVT COLLEGE TOWNSHIP

#### FSc PRE-ENGINEERING

Grad. June 2016 | Lahore, PK  
86% A+

## SKILLS

### TECHNICAL SKILLS

Proficient with:

Node JS • Express • Angular • Core PHP  
• ASP.NET • Laravel • JQuery  
• HTML/CSS • Bootstrap • JavaScript  
• TypeScript • Python • C#  
• React • React Native • Redux  
• MySQL • SQLite • SQL-Server  
• Git • Agile Development

Familiar with:

C • C++ • Shell Scripting • Django  
• Docker • Jenkins • Socket.io  
• Electron JS • Android Studio  
• Next Js • RxJS • Firebase  
• MongoDB • Redis • Nginx  
• Docker • MapBox • GraphQL  
• ESLint • NgRx • ROS

### SOFT SKILLS

Leadership • Initiative • Creative  
• Time management

## FUN FACTS

### INTERESTS

Travel • History • Technology  
• Sports

### HOBBIES

Video Games • Movies • Football

### LANGUAGES

Khwar • Urdu • Punjabi • English

## EXPERIENCE

### EBRYX | SOFTWARE ENGINEER

Apr 2020 – Present | Lahore, PK

- Backend development with Node, Express, MySQL, Redis.
- Frontend development with Angular.
- Refactor and optimize the code of the enterprise-level product.
- Design and development of new features.
- Design and development of optimized database for new features.
- Develop and monitor cron jobs & task queues.
- Develop and manage connections between controller and admin control panel via redis pubsub.

### ESKETCHERS | FULL-STACK DEVELOPER

Jan 2020 – Apr 2020 | Lahore, PK

- Developed Android & iOS application using React Native.
- Developed web applications using Node, React, Firebase, Socket.io, MongoDB & MySQL.
- Developed Real-Time chat application using React Native and Firebase.
- Developed and deployed Firebase Cloud Functions for push notifications & database operations.
- Deployed web applications on Heroku and Digital Ocean servers.

### FIVERR | LEVEL 2 SELLER

Aug 2018 – Apr 2021

I was the providing the following services on my profile.

- Backend development using Core PHP, Laravel, ASP.NET MVC 5, Django, NodeJs.
- Frontend development using React, Angular, JQuery, Vanilla Js, HTML, CSS, SCSS, Bootstrap.
- Android & iOS application development using React Native.
- Desktop application development using Electron JS & Windows forms.
- Docker, Jenkins, CI/CD pipelines.
- Deployment of web applications on Heroku, CentOS and Ubuntu servers.
- Automation scripting using Python, PHP, JavaScript, C#.
- Other C++, C#, PHP, Python, JavaScript, JSON, Shell Scripting related tasks.

## INTERNSHIPS

### KICS UET | LAB INTERN

Jun 2019 – Aug 2019 | Lahore, PK

- Did research on indoor Autonomous Guided Vehicles.
- Designed and developed Autonomous Guided Robot for my final year project using ROS.
- Designed and developed hardware component of autonomous guided robot.

### QUVA | LARAVEL DEVELOPER

Jun 2018 – Aug 2018 | Lahore, PK

- Designed and developed a GRE preparation application for the startup.

## FREELANCE PROJECTS

### **YABOUS | THEATRE TICKET BOOKING**

NOV 2020 – APR 2021 | Palestine

Theatre ticket booking and accounts management application for Yabous cultural centre. Project is divided into web portal, desktop application, mobile application and online ticket booking website.

#### **Tech Stack:**

- Web portal is developed using Node, Express, Angular 8, MySQL, Socket.io, Redis.
- Desktop application is developed using Electron Js & Angular 8.
- Mobile application is developed using React Native.
- Ticket booking website is developed using Angular 8, Node, Express, Socket.io, Redis & Bank of Palestine payment API.

### **MEDINA MAIDS | PROFILE MANAGEMENT**

JAN 2021 – FEB 2021 | Singapore

International maids profile management application for Medina Maids Singapore. Application consist of web portal to manage, advertise profiles & bulk pdf profiles data extractor.

#### **Tech Stack:**

- Backend is developed using Node, Express, Redis & Python 3.
- Frontend is developed using Angular 8.
- Python script is used to extract images from pdf profile(s) & node pdf text extractor is used to extract text. Queues are used to avoid process blockage while pdf data processing.

### **VEHICLE INQUIRY | NUMBER PLATES PORTAL**

SEP 2020 – OCT 2020 | Netherlands

Netherlands vehicle registration inquiry portal for a startup. Project consist of web application to manage and provide services to registered users.

#### **Tech Stack:**

- Backend is developed using Core PHP & MySQL.
- Frontend is developed using HTML, CSS, Bootstrap 4, Vanilla JS & JQuery.
- Netherlands government provided API is used to fetch & process vehicles data.

### **SPORTS BETTING | BETTING APPLICATION**

JAN 2020 – MAR 2020 | India

Sports betting application for Fiverr client. Project consist of web application to view game scores & place bet.

#### **Tech Stack:**

- Backend is developed using Core PHP, MySQL, Redis & Socket.io.
- Frontend is developed using HTML, CSS, Bootstrap 4, Vanilla JS & JQuery.
- Bet365 API is used to fetch & process sports data.

## ACADEMIC PROJECTS

### **MARCOS | AGV BASED SCENE INTERPRETATION ROBOT**

JUL 2019 – JUN 2020 | Final Year Project

Designed & Developed AGV based interpretation robot using SLAM as my final year project. The project is based on two modules, first module is AGV and second one is scene interpretation. Software part of AGV module is developed using ROS indigo and connected it to hardware part via ROS-Arduino Bridge. Scene interpretation uses Openpose for joint detection and CNN for object detection (pistol, knife and baggage).

#### **Tech Stack:**

- Software part consist of ROS(Robot Operating System), OpenPose, Ubuntu 14, Python 3, C++, C.
- Hardware part consist of Kinect 360, Arduino Mega, Gyroscope, Accelerometer, Encoder sensor mounted gear motors.

### **BOOK SHARE | BOOK SHARING APPLICATION**

JAN 2020 – FEB 2020 | 7<sup>th</sup> Semester Project

Online book sharing application for CS-441(Mobile Application Development) lab evaluation. Project consist of android application to advertise & share books online.

#### **Tech Stack:**

- Android application is developed using Android Studio.
- Firebase firestore, Firebase auth & Firebase Cloud services are used as backend.

### **MOBILE SPECS | PHONE SPECIFICATION PORTAL**

AUG 2019 – SEP 2019 | 6<sup>th</sup> Semester Project

Mobile phone specification website like gsmarena.com & phonearena.com for CS-363L(Database Systems) lab evaluation. Project consist of web application to manage and search latest mobile phone information.

#### **Tech Stack:**

- Backend is developed using Laravel 5.8, Laravel Generator, SQL Server.
- Frontend is developed using HTML, CSS, , Vanilla JS, JQuery.

### **METS | MCAT & ECAT PREPARATION SYSTEM**

JAN 2019 – FEB 2019 | 5<sup>th</sup> Semester Project

Open source MCAT & ECAT preparation application for CS-381L(Software Engineering) lab evaluation. Project consist of web application to manage multiple choice questions and conduct multiple choice questions based exams.

#### **Tech Stack:**

- Backend is developed using ASP.NET MVC 5 & SQL Server.
- Frontend is developed using HTML, CSS, Vanilla JS, JQuery.

### **MES | MEDICAL EMERGENCY SYSTEM**

FEB 2018 – MAR 2018 | 4<sup>th</sup> Semester Project

Medical emergency management system for CS-281L(Object Oriented Analysis and Design) lab evaluation. Project consist of desktop application to manage medical emergency related services like online doctors portal, blood bank & nearest hospital finder.

#### **Tech Stack:**

- Desktop application is developed using Windows forms, WCF, Google Map API, & Bunifu Framework UI.

## EXTRA CURRICULAR ACTIVITIES

### **EHS - SCHOOL AWARENESS CAMPAIGN | ORGANIZER**

MAR 2019 | Lahore, PK

- Organizer of EHS School Awareness Campaign UET 2019.

### **NAQSH 18 | ORGANIZER**

DEC 2018

- Organizer of UET NAQSH 2018.

### **UET STREET ART 18 | ORGANIZER**

DEC 2018 | Lahore, PK

- Organizer of UET STREET ART Competition 2018.

### **APEX 18 | ORGANIZER**

MAY 2018 | Lahore, PK

- Organizer of All Pakistan Environmental Art Exhibition 18.

### **SKM SCIENCE FAIR | PARTICIPANT**

FEB 2011 | Lahore, PK

- Made a DIY wind power mobile charger.