

Sohail Khan

soh41l.github.io | linkedin/soh41l
sohailkhan.sk@hotmail.com | +92-305-4706797

EDUCATION

UET, LAHORE

BS IN COMPUTER SCIENCE

Grad. July 2020 | Lahore, PK

SKILLS

TECHNICAL SKILLS

Proficient with:

| Node.js | Express.js | Nest.js | Angular
| React.js | Next.js | JQuery | React Native
| JavaScript | TypeScript | HTML/CSS
| Bootstrap | Tailwind CSS | Redux
| Laravel | PHP | Python | C# | ASP.NET
| MySQL | SQLite | SQL-Server | Redis
| Git | Docker | Sentry | AWS | MongoDB
| New Relic | Kibana | Agile Development

Familiar with:

| C | C++ | Java | Shell Scripting | Django
| Socket.io | Jenkins | Electron.JS | Firebase
| Android Studio | Nginx | MapBox
| GraphQL | ESLint | NgRx | RxJS
| Java Spring Boot | Elastic Search

SOFT SKILLS

Leadership • Initiative • Creative
• Time management

FUN FACTS

INTERESTS

Travel • History • Technology
• Sports

LANGUAGES

English • Urdu • Punjabi • Khowar

INTERNSHIPS

KICS UET | RESEARCH INTERN

Jun 2019 – Aug 2019 | Lahore, PK

- Researched and developed Autonomous Guided Robots using Robot Operating System (ROS) for my final year project, focused on indoor Autonomous Guided Vehicles.

QUVA | LARAVEL DEVELOPER

Jun 2018 – Aug 2018 | Lahore, PK

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

EXPERIENCE

RETAILO TECHNOLOGIES | SENIOR SOFTWARE ENGINEER

Dec 2021 – Present | Lahore, PK

- Successfully extracted distributed services from a monolithic application, enhancing its scalability and performance.
- Designed and developed major product features using technologies such as Sails.js, Nest.js, Next.js, React Native, MySQL, and AWS Services.
- Implemented a streamlined API documentation process by integrating Swagger documentation, ensuring its accuracy and relevance based on API request and response changes.
- Demonstrated a strong commitment to quality by adopting Test Driven Development (TDD) practices, resulting in achieving 100% API test coverage for services.

EBRYX | SOFTWARE ENGINEER

Apr 2020 – Dec 2021 | Lahore, PK

- Spearheaded the development of key features for "Invisily", a highly secure Zero Trust Network Access solution designed for large-scale access control applications.
- Implemented Pub/Sub communication between dashboard backend service and controller service, replacing manual polling and increasing system capacity to handle 10,000+ client devices - a significant improvement from its previous capacity of just 600 devices.
- Contributed significantly to the design and implementation of multiple features for the Invisily product, utilizing a broad range of technical skills and expertise.
- Optimized the performance of both the backend and frontend components of an enterprise-level product, improving user experience and overall efficiency.
- Collaborated effectively within a large team environment, following Scrum and CMMI best practices to deliver high-quality results consistently.

ESKETCHERS | FULL-STACK ENGINEER

Jan 2020 – Apr 2020 | Lahore, PK

- Developed a customer support chat application using React Native, Android Studio (Java), and Firebase.
- Implemented Firebase cloud functions to trigger push notifications based on database changes.

UPWORK | FULL-STACK ENGINEER

Jan 2021 – Dec 2021 | Freelance

- Provided web, mobile, and desktop application development services.
- Tech: Node, Express, Nestjs, React, Nextjs, Angular, React Native, PHP, Laravel, Python, React Native, MySQL, SQL Server, SQLite, MongoDB, and Firebase.

FIVERR | FULL-STACK ENGINEER

Aug 2018 – Apr 2021 | Freelance

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 & Android Studio.
- Other Python, PHP, JavaScript, C#, C++, C#, PHP, Python, JavaScript, Java, JSON, Shell Scripting related tasks.

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 a 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, and 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. The application consist of a web portal to manage, and 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 vehicle 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 a 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(autonomous guided vehicle) based scene interpretation robot using SLAM as my final year project. The project is based on two modules, the first module is AGV, and the second one is scene interpretation. Scene interpretation uses Openpose for joint detection and CNN for object detection (pistol, knife, and baggage). The software part of the AGV module is developed using ROS indigo and connected to the hardware part via ROS-Arduino Bridge.

Tech Stack:

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

BOOK SHARE | BOOK SHARING APPLICATION

JAN 2020 – FEB 2020 | 7th 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(Java).
- Firebase firestore, Firebase auth & Firebase Cloud services are used as backend.

MOBILE SPECS | PHONE SPECIFICATION PORTAL

AUG 2019 – SEP 2019 | 6th 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 TESTING SYSTEM

JAN 2019 – FEB 2019 | 5th 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 | 4th 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.