



ALI USMAN

Software Engineer



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PROFILE

I am passionate about Machine Learning and Software development. I am a fast learner. I have a lot of experience and skills in this machine Learning and Data-Science. Having Team lead abilities to work in a collaborative and productive environment.

- Committed
- Good IQ
- Good Learner

Languages

- ENGLISH
- URDU

HOBBIES



Traveling



Reading



Gamming



Hill Climbing

ADDRESS

HOUSE ADDRESS BHALWAL

DISTRICT

MANDI
BAHAUDIN

EDUCATION

Institute Name	Education Level	Year	Percentage
COMSATS university Islamabad	Masters In Computer Science	2021	4.0 / 4.0, with 95%
COMSATS university Islamabad	Bachelors in Software engineering	2018	3.44 CGPA with 82% Marks
HIRA College, Sargodha	Intermediate with computer Science	2014	57.3%
Dar-E-Arqam Model High School , Bhalwal	Matriculation	2012	80%

RESEARCH WORK

Publishing Year / Status	Paper Title	Impact Factor
2023 / Online	Multi-Level Deep Generative Adversarial Networks for Brain Tumor Classification on Magnetic Resonance Images.	2023: 3.401
2021 / Online	Real Time Multipurpose Smart Waste Classification Model for Efficient Recycling in Smart Cities Using Multilayer Convolutional Neural Network and Perceptron	2021: 3.847
2022 / Online	Enhanced Adaptive Brain-Computer Interface Approach for Intelligent Assistance to Disabled Peoples.	2022: 4.397
2020 / Online	Measuring the Coolness of Folding Mobile Phones	2018: 0.702

SKILLS

Python	●	●	●	●	●
MATLAB image processing	●	●	●	○	○
Android application development	●	●	●	●	●
Robotics and AI	●	●	●	●	○
Java Programming	●	●	●	●	○
Networking.	●	●	●	○	○
Data Warehousing	●	●	●	●	○
Data mining , Big data	●	●	●	●	○
Web Development	●	●	●	●	●
Project Management	●	●	●	●	○
Oracle Database	●	●	●	●	●

Tools / Tech

● Google Colab	● Flask
● Digengo	● Dockers
● Android Studio	● Visual Studio
● Neural Networks	● Regression
● Heroku Integration	● Firebase
● Rest Api's	● Computer Vision
● Arduino	● Raspberry Pi
● Data Integration	● Cloud Computing

MAJOR PROJECTS

iCabbi Driver

Link: <https://play.google.com/store/apps/details?id=com.icabbi.driver.app>
 Details: Retaining and increasing drivers is essential if you want to grow your business. So, how can you make drivers want to work for your taxi company, rather than your competitors? Easy. Make their job as simple and safe as possible, and optimize their trips so that they make more money, in less time!

Airlift Grocer

Link: <https://play.google.com/store/apps/details?id=com.airlift.shop&hl=en&gl=US>
 Airlift operates an advanced network of mid-fulfillment centers that receive inventory from manufacturers and suppliers. By using artificial intelligence to forecast demand, this platform moves consumer goods from fulfillment centers to dark stores, and ultimately to our customers.

PackageX Receive

Link: <https://play.google.com/store/apps/details?id=receive.px.app&hl=en&gl=US>
 PackageX Receive automates package receiving operations such as label data ingestion, notifications, storage, retrieval, forwarding, pick-up, and locker integrations at different receiving sites, be it a mailroom, package room, pick-up & drop-off location, warehouse, or a dark store.

Invoice Maker - Invoicing app

Link: <https://play.google.com/store/apps/details?id=com.invoiceslab.invoice>
 The idea behind Invoice-Labs was to find a sustainable plan to help small businesses in success fully launching their business ideas into a productive environment. Moreover, we understand that to regulate these small businesses or start-ups most of the time, a single person performs multiple tasks. The idea of Invoice-Labs billing software is to provide a small contribution to this enormous process.

PSX Analytics

Link: <https://play.google.com/store/apps/details?id=com.heuristify.psxalert>
 Pakistan's first app that allows you to access and keep track of your investments in the Pakistan Stock Exchange (PSX). Track your portfolio in real-time, track the financials of companies. Not only that but you can search for the ideal stock picks based on their fundamentals.

CUI Timetable

Link: <https://play.google.com/store/apps/details?id=g5.consultency.cuitalibilam&hl=en&gl=US>
 Main features of the application are Faculty Time Table, News Feeds, Free Rooms, Student's Time Table and Room Bookings

Messenger App Nov 2020 - Sep 2021

This is a chat app developed in KOTLIN with an MVVM design pattern. This app is just like WhatsApp with some extra features of audio conferences, video conferences, audio calling, video calling, one to one chat, group chat, channels, multiple app theme selection, multiple font's selections, multiple language's selections, file uploading up to 5 GB, etc. The backend of this application is developed using PHP Laravel with a slim micro framework and Node.js.

CyTech Solutions Pvt Ltd

Tools and Technologies used: Retrofit, MVVM, Cryptography, Realm, VoIP, Jitsi, View Binding, Data Binding, Dependency Injections, Live Data, Kotlin Coroutines, Sockets.io, XML, MQTT Client, Material design, bug fixes, shared preferences, custom camera, Multi support screens UI design, constraint layout, Relative layout, Third-party API's integration, Animations, Data Binding, Navigation.

WORK HISTORY

COMSATS University
Islamabad

Feb – 2023 --- continued

Lecturer

- Teaching software engineering and computer science subjects to students.
- Some other managerial responsibilities.

DEVGATE Consultancy

Feb – 2022 --- Feb -- 2023

Team Lead Mobile Development

Lead android developer working on client and product based android applications.

- Working on Airlift android application.
- Leading some other ongoing android projects.

Working using following advance android application architectures and moving my other team members on these techniques.

- MVVM
- Dagger and Hilt
- Generalization in many aspects
- MVP
- Clean Architecture
- Custom views and libraries to support different animation in addition to the different views.

Worked on many large scale applications from scratch and maintained some other pre-implemented applications in production.

Heuristify Islamabad

May – 2021 --- Jan-2022

Team Lead Development

Working on the following applications and these application are also available on Play Store.

- PSX Analytics
- BURAAK User Application
- BURAAK Driver Application
- MDU

Lead development team and launched multiple apps in Google Play Store and Back-end developed in Node JS.

- Created new revenue stream - Invoice app with in-app purchase to support Invoice and Estimate generation.
 - Building and supporting architecture of an Android applications.
 - Created a set of reusable custom UI controllers based on designers' requirements
 - Created a set of utility classes to work with Google Maps based interactive UI components.
 - Participating in software integration process.
 - Implemented Agile Scrum across Software projects and increased velocity (time-to-market).
 - Standardized tools for Version Control, Scrum and reporting across Software & Firmware teams.
 - Modified existing libraries for legacy support and created new libraries for an efficient development process.
 - Hired android developers.
 - Promoted from Sr. Full Stack developer to Team Lead Development on Sep'13.
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Software House Coordinator & Junior Lecturer

- Teaching software engineering and computer science subjects (ICP, CCN, OOP, Data Structures etc.) to students.
- Worked on various projects individually and with student in this duration.
- Managed COMSATS software house and developed many large scale software systems.

During this time, I worked on multiple technologies as Full Stake Developer for creating many useful software for the University.

CUI Transport System

Django

The CUI (COMSATS University Islamabad) Transport system is an online platform that provides transportation services to students. It allows students to check the routes and timings of the university's transportation services. Additionally, the transport department can use this system to verify the fee status of students who use the transportation services. Students can also view and download fee challans from the portal, making the payment process more convenient. The system aims to provide an efficient and reliable transportation service for the university's students.

CUI Task Assigner

Node JS & React JS

The CUI (COMSATS University Islamabad) Task Assigner is an online platform used to assign tasks to university employees. Once a task has been assigned, employees can update the status of their tasks as completed once they have finished their work. This platform allows for a more streamlined process of task delegation and completion, as it eliminates the need for manual follow-up and tracking. By using this system, the university can ensure that tasks are assigned and completed in a timely and efficient manner. Additionally, the platform allows for easy tracking and monitoring of the progress of assigned tasks, helping to ensure that projects are completed on schedule.

CUI Complaint System

Node JS & React JS

The CUI (COMSATS University Islamabad) Complaint system is an online platform that allows students, faculty, and the management team to file complaints regarding any issue they are facing. The system ensures that complaints are resolved within ten days of filing, making the process efficient and fast. This system is aimed at providing a reliable and convenient way for stakeholders to raise concerns and have them addressed promptly. By implementing this system, CUI seeks to improve the overall experience of its stakeholders and address any issues they may face in a timely manner.

CUI software house website

Node JS & React JS

The website includes information about the Software House history, team, clients, and areas of expertise. It also showcases the software House portfolio of software development projects, highlighting the technologies used, the industries served, and the outcomes achieved for clients.

In addition, the software house website provides information about the Software House approach to software development, such as its development methodology, quality assurance practices, and project management processes. It also describes the Software House capabilities in areas such as user experience design, software testing, and maintenance and support.

MAR-2017 ---- Jun-2021

My responsibilities were to build android applications and data communication among other platforms, with java as a core language.

Skill set Related to Android

1. Have a strong Skill set in latest android best practices
2. Latest Android Development architectures like MVP and MVVM
3. Fluent with android Data Binding and Activity Binding
4. Skills in maintaining data lifecycle locally with android Live Data and Room Database
5. Strong Skill set with Google Maps as I also Works with Google Maps for online Car Services
6. Creating and maintaining best architecture and base environment for the API Calling and Data distribution
7. Fluent with UI Design Implementation as of latest UI Design requirements
8. Maintaining Android Legacy modules and creating Custom Designs for better performance on all devices
9. Also having strong skills related to Code Protection with APK encryption

Skill Set Related to python

1. Having Strong Skill set in python web with Django and Flask Frameworks
2. Worked with PostgreSQL and MySQL databases at both server end and locally
3. Strong Skill set related to API's Development with Django and Flask
4. Having Strong Skill set related to latest python development architectures.
5. Worked on Different data distribution mechanism for processing and distributing the data at server and client End.
6. Have Strong Experience on working with different Machine learning and Data Science algorithms for different kind of problem solutions like classification, Prediction and forecasting
7. Have worked on Robotics using basic tools and technologies like Arduino and Raspberry-Pi.
8. Currently handling 2 servers for my own ongoing Projects.