Hamza Farooq

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# Experience

# Software Engr @ Arbisoft [Jul 2020 – Dec 2020] Python/Django, React.js, Scrapy

# Takhleeq UET [June 2019 – Sep2019] Developed admission system of IB&M department UET in ASP.net

# Professionals Skills

* **Development Languages** [C#, C++, Python, Embedded C]
* **Designing Tools** [Adobe Photoshop, Adobe After Effects, Autodesk 3ds Max, Cura3, TinkerCad, Blender, FreeCad, Fusion360, Sketchfab]
* **Front-end Technologies** [React.js, HTML5, CSS, Angular, JavaScript]
* **Tools/Technologies** [Django, Scrapy, Visual Studio, Unity5, Android Studio, Xcode11]
* **Databases** [SQL Server, MySQL]

# Education

# BS(CS) UET Lahore (3.61 CGPA) 2016-2020

# FSc(Pre-Engg) Govt. Shalimar College (A+) 2012-2015

# Matriculation (A+) 2010-2012

# Honors and awards

# Certificate of dean’s role of honor in 6th, 7th and 8th semesters

# Final year project reimbursed by nigiri

# 1st position in COMSATS Ideocon FYP contest

# Final Year Project

# Digital Board Marker: Storage Efficient Lecture Recording System for Class Lectures is a comprehensive, cross-platform lecture recording system that saves storage up to 100 times. It can live stream lecture animations at very low internet speeds and hence dramatically save internet data consumption. It can turn any plane surface into an interactive, ultra-durable touchpad. Tools and Technologies used: C# Winforms, Unity5, AngularJs, Bootstrap, ASP.net Core

# Term Projects

* Advanced Virtual Reality (C#, Unity5) Interactive force-feedback glove integrated with VR game.
* Hidden Object Game, Ants vs Some Bees (Python3) Term projects of interactive game.
* MCQ based test system (C++) A test conducting, checking and report generation for MCQ type test.
* Spell Checker – DSA (C++) Binary-Search-Tree based dictionary with spell checking support.
* Buck Boost Converter (IoT) Step-up DC-DC converter using NE555 IC.
* 8-bit Computer (Discrete Electronic Components) a minicomputer capable of doing binary calculations.
* Balloon Shooter (Assembly Language) Classic bubble pop game that run on CLI.
* Numerical Methods for Differential Equations (MATLAB) Report of comparison of methods.
* Or Sunao (C#, WCF) A chatting application with support of sharing images and group chat.
* Handwritten Digit Recognition (Python3) Implemented using Convolutional Neural Networks
* School Management – DBMS (Asp.net MVC5)
* Classroom Management – SE (Asp.net MVC5)
* Personalized Network (Cisco Packet Tracer) Understood the advantages of using VLAN in a network
* Smartphone Controlled Surveillance Robot (C#, Unity5, IoT) Android controlled 3d printed Robot

# Side Projects

* Online Project Management (ASP.net) Project scheduling and task management web platform
* Gaaye A Rhi Bhagti Vee (Unity5, Blender, Photoshop) Infinite runner smartphone game
* Scorpio (Cura3, TinkerCad, Fusion360, IoT) 3d printed tank robot
* Water Sonic (Embedded C, Arduino, IoT modules) Ultra-durable water level monitor and manager