

Farooq Ahmad

Software Engineer

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Career Objective

A dedicated software engineer, enthusiastic to leverage my technical and digital skills, creativity and productivity in a dynamic organization where I could collaboratively apply my knowledge and practice my skills in the best of the company's interests while continually learning and growing in a healthy and supportive team environment.

Education

B.Sc. Computer Engineering	2017 - 2021
National University of Computer & Emerging Sciences (NUCES), FAST Lahore	
Advanced and Ordinary Level, Cambridge International Examinations	2012 - 2017
The City School, Alevel Gulberg Campus (ALGC), Lahore	

Courses

Data Scrapping (Python)	2022 - Current
Cyber Security	2021 - 2022

Work Experience

Software Engineer	Currently
Nexius	

Frontend (HTML CSS React) - Backend (DJANGO Python)

Projects

Smart Hybrid HVAC System (Final Year Project)

- Designed and implemented a Heating, Ventilation & Air Conditioning System work in all kinds of weather conditions to provide the user with a comfortable environment by controlling the temperature and humidity levels through a mobile application.
- Built an android mobile application and integrated it with the system via arduino using bluetooth module.
- Hybrid powered DC and solar

Airline Management System

- Designed and developed an airline management system with basic functionalities
- Website designed with html using CSS and java script, Database designed by engineering ER/EER diagrams using ERwin model and SQL using SQL management studio
- Front end - HTML, Java script, CSS / Back end - myphp, xampp server

Face Detection System

- Designed and implemented a real-life face detection system utilizing machine learning techniques and advanced algorithms.
- Trained the algorithms on large datasets using popular Python libraries such as NumPy, TensorFlow, and Keras to ensure accuracy and reliability.
- Implemented neural networking using machine learning and artificial intelligence.

Embedded Home Automation and Security System

- Developed an embedded system on TM4C microcontroller platform in C programming language
- Immediate response on intruder detection or unsafe air quality levels
- Timely reporting of temperature to attached display over UART protocol

Password Operated Door Locking System

- Orchestrated design and integration of assembly code for 8051 microcontroller family, as part of a 2-member team
- Assisted in the simulation of locking system prototype to correctly detect authorized personnel from unauthorized users and set off an alarm on multiple failed attempts

Pseudo Ride Hailing Service using C++

- Built a text based interface that displayed useful data to users, such as the minimum distance from a selected origin to destination
- Adopted various graphing algorithms in C++ such as Dijkstra's shortest path algorithm and Prim's minimum spanning tree algorithm

School Grading System

- Engineered a program to load multiple files of 100+ students' academic performance and output a formatted grade distribution and report
- Leveraged class inheritance relations, polymorphism, and type templates in C++ to develop a semi modular system

Skills

C/C++, C#, Python, ASSEMBLY, MATLAB, SQL, HTML/CSS/JavaScript, Visual Basics, Arduino, App development, Web development, Digital Logic Designing, Machine Learning, Embedded systems, Micro controllers, PCB circuit designing

Softwares

Visual Studio, VS code, DEV, SQL Sever, GNS3, Ns3, VMware, DOSBox, emu8086, Keil uVision, Proteus, AutoCAD, Arduino, sketch UP, Microsoft Office, Wireshark, Pspice, SQL Management Studio