



# Engr. Khuram Shahzad

(Software Engineer & Developer | Data & ML Scientist )

A progressive smart soul who loves innovations, research and development.

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Profile: ([LinkedIn](#), [GitHub](#), [StackOverFlow](#))

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## Professional Goals

- Looking for a long-term career and challenging opportunities to gain expertise, contributing to the organizational growth and thus catalyzing personal growth.
  - I am to become a well-known scientist because I am kind of person who is expert in or enthusiastic about technology. Especially R&D.
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## Work Experience

### Assistant Director (IT/MIS) — Tesco, Peshawar

Jan,2023— Present

- Works in close collaboration with the Director of Information Technology in providing leadership, direction, and guidance to staff and managing operational activities to achieve the department's long and short-range goals and business objectives.
- Provide primary oversight in the coordination of the daily technology support operations.
- Coordinate with technical staff on the implementation of various new technology initiatives (ERP etc.).
- Performs the management of technology, equipment and software developments etc...
- Develops and maintains services catalog describing the offerings of ITS services and participates in the development of service level agreements for the delivery of those services.

### Computer Instructor at FAST — National University of Computer and Emerging Sciences

Feb,2021— Jan,2023

- Design and conduct Lab exercises as per departmental requirements
- Teach and supervise the students using programming sessions, practical/ live labs, demonstrations, discussion groups, case studies, field assignments and independent or group projects.
- Lab I taught:
  - \* Data Structure, Object Oriented Programming
  - \* Software Design and Architecture
  - \* Software Construction and Development, Computer Networks
  - \* Computer Organization and Assembly Language
  - \* IICT and DLD
- Programming Language: C, C++, Java, C#, Python, Assembly, HTML/CSS, etc.

### Software (C# .NET) Developer — MA Business Hub Limited (UK base Company)

Mar,2019 — Dec,2020

- Experienced .NET Developer possessing well-developed field expertise and knowledge and an extraordinary track record of employer and client satisfaction.
- At MA business Hub, I was mainly in charge of the development of new software systems using:
  - \* Visual Studio 2017/ 2019/2022 (C#.NET 4.7 and 4.\*)
  - \* SQL Server 2016/2018
  - \* Crystal Report Serer Pack 24/32
  - \* MS Window Server 2012/2016
  - \* Entity Framework
- Developing C# .NET solutions for the organization.
- Creating in-house applications using the .NET framework.
- Translate application storyboards and use cases into functional applications
- Design, build, and maintain efficient, reusable, and reliable code
- Worked on the improvement of programming procedures in order to make the whole software development process more effective.

## **Projects/Innovations (worked on)**

### **Project#1: Smart Point of Sale: (Desktop and Mobile Application) (C#.NET)**

#### **Role and Responsibility:**

- Developing C# .NET solutions for the organization.
- Creating in-house applications using the .NET framework.
- Translate application storyboards and use cases into functional applications
- Design, build, and maintain efficient, reusable, and reliable code
- Debugging and maintaining written code.
- Defining and organizing projects on an ongoing basis.
- Reporting and resolving issues related to .NET projects.
- Identifying and handling technical risks and issues.
- Working in a project team alongside other developers.
- Providing technical support to stakeholders in the organization.
- Reporting on project statuses and developments to senior team members.
- Participating in project meetings with management and other team members

#### **Technology used:**

- Visual Studio 2017/ 2019/2022 (C#.NET 4.7 and 4.\*)
- SQL Server 2016/2019
- Entity Framework and Crystal Report Serer Pack 24/32
- MS Window Server 2012/2016
- Laravel for API writing.
- SQL Table Dependency, Triggers, Threading, API's, SMTP, etc..

### **Project#2: Email Marketing App and Advance Search Engine. (C#.NET, Fiverr)**

#### **Role and Responsibility:**

- Develop the application according to client requirements.

#### **Technology used:**

- Visual Studio 2022 (C#.NET 4.8 )
- SMTP, Spire Dox, Sockets, Http, Threading, etc..

### **Project#3: Big Data (statistics on Airline data using Hadoop, MS Semester project, Python, Java, C)**

#### **Role and Responsibility:**

- Identify valuable data sources and automate collection processes
- Undertake preprocessing of structured and unstructured data
- Analyze large amounts of information to discover trends and patterns
- Build predictive models and machine-learning algorithms
- Combine models through ensemble modeling
- Present information using data visualization techniques
- Propose solutions and strategies to business challenges

#### **Technology used:**

- Google Cloud Console, Google Cloud Engine.
- Hadoop, Spark
- Zero MQ, Kafka
- CUDA

### **Project#4: Image Caption Generator (MS Semester project, Python)**

### **Project#5: Mirpur Visa (Web application, Laravel)**

### **Project#6: School Management System (C#.NET Desktop Application, Internship NTC MUST AJK)**

### **Project#7: Smart and Secure Transport System (Prototype and Designing.)**

## Academic Qualification

Education and Institute	Result	Duration
• MS Data Science, (FAST-National University of Computer and Emerging Sciences)	3.5 (In-Progress)	2021-2023
• BS Software Engineering, (Mirpur University of Science and Technology, AJK)	3.72/4.00 CGPA	2016-2020
• Intermediate in Pre-Engineering, (Govt Model Science College Muzaffarabad, AJK)	858/1100	2014-2016

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## Projects/Innovations (supervised)

### Subject Software Construction and Development:

- Visual 2022 (C#.NET 4.7 and 4.\*)
- SQL Server 2016/2019
- Crystal Report Serer Pack 24/32
- Projects List
  - Face Recognition Voting System,
  - Passport tracking System
  - Library Operations Automation System,
  - Medicine Expiry Alert Management system
  - POS Billing and Inventory System
  - Online Tuitions Software, Buss Management System
  - Logistics Tracking system ,Hostel Management System
  - Cafeteria Management System, Library Management System

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## Programming Language/Framework

### (worked on)

- C# .NET and Crystal Report (for desktop app development)
- Entity Framework
- SQL, SQL Server/ Management studio
- Java (Application Development)
- Python (Machine Learning)
- Python (Big Data, Hadoop)
- Assembly (16bit, 32bit and 64 bit)
- Java for Desktop GUI development
- PhP for API writing in Laravel
- C++ for Data Structure and GUI app
- C for CUDA development in Big Data.
- Android Development for Mobile App.
- Laravel.
- MERN development (get trained by PSB)
- R for statistics.
- HTML/CSS/JavaScript

## Professionals (worked on)

- Big Data Analytics.
  - \* Hadoop, Spark
  - \* ZeroMQ, Kafka
  - \* CUDA
- Software Development
- Software Design and Architecture
- OOP Concept, Data Structure & Networking
- MVC and Entity Framework
- Laravel (Backend)
- Graphic Designing, Data Science
- Machine (supervised and unsupervised Learning )
  - \* Feature (scaling, selection and feature extraction)
  - \* Training and Testing.
  - \* Data visualization.
- \* Libraries used in Machine Learning:
  - \* Numpy, Scipy, Skikit-learn, Tensorflow
  - \* Keras, PyTorch, Pandas, Matplotlib

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## Certificates/Trainings/Workshops (Delivered)

- One month Master Trainer of Desktop Application using C# & .NET at FAST National University of Computer and Emerging Science. [01-Jul-2020 — 29-Jul-2022]

## Membership

- Member of IEEE.
- Member of ACM (Association for Computing Machinery).
- Pakistan Engineering Council Register Engineer.

## Certificates/Trainings/Workshops (Received)

- **“Introducing Entity Framework”** Certificate of Completion by Cam Soper and Microsoft .NET !
- Certificate of Completion **“Introducing .NET Core”** by Scott Hanselman, Microsoft .NET , and Kendra Havens!
- Certificate of Completion **“Git from Scratch”** by Morten Rand-Hendriksen!
- 3-month internship in C#.NET and SQL at Network Telecommunication Center MUST.
- **1 month Mean/Full Stack Development** Training by **Pakistan Software Export Board** & by Dice Analytics MongoDB, Express. js, AngularJS, and Node. js. MEAN is an end-to-end JavaScript stack largely used for cloud-ready applications. [Venue: Online 8 May to 30 May 2021]
- 7-month Diploma holder in computer application programs from Moon Creation School of Information Technology MZD. (MS word, Excel, Power point, In page, CorelDraw, Photoshop and Illustrator)
- 3-month English Language Course certified from Moon Creation School of Information Technology MZD.
- C#, C++, python, Java, SQL and HTML course (certified from Solo Learn).
- Attended **8th Dean & Directors Conference** 2021 by National Business Education Accreditation Council Topic: Business Education in a Time of Change, Toward a new normal for business school in Pakistan. [Date: 6th - 7th April 2021 Online Zoom]
- **COMSET ICCBS International** Workshop on **Artificial Intelligence & Machine Learning in life Science** COMSET (OIC Ministerial Standing Committee on Scientific and Technological Cooperation) [25 March 2021]
- Teacher of Teaching: **4MAT Teaching Pedagogy** by Quality Enhancement Cell , Peshawar
- Attend One day Introductory workshop on **Block Chain and its working** Host: Engr. Mashal Khan Venue: Coal Lab FAST NUCES PWR
- Online Training session on **Internet of Things (CPD 0.5 Points)** Continuing Professional Development Program Hosted by: FAST NUCES ISB [Date: 21-Oct-2021 Zoom]
- **Unix- A Free & open Source Operating System** for home, office, teaching and for research (CPD 0.5 Points) . Issuing authority COMSATS University Islamabad. [One day: 31 May-2021]

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## References

### IMAGINE FOUNDATION E.V.

Full Stack Developer Recommended  
by Imagine: [International Recommendation letter for IT related jobs](#)

### LINKEDIN

Link: [See all certification](#)

Dear Sir/Madam,

My name is Khuram Shahzad and I am an experienced .NET Developer , Data Scientist and Machine Learning Engineer, possessing well-developed field expertise and knowledge and an extraordinary track record of employer and client satisfaction. I have strong communication skills and experience in explaining technical topics to a general audience.

As a Data Scientist:

In brief, I am a results-oriented and motivated individual with a pro-active approach and the ability to take an initiative and lead any project to a successful finish. During my Master at FAST-National University, I have worked on sever project related to Machine learning (supervised and unsupervised learning), NLP Reinforcement Learning and Big data Analytics (Hadoop, Spark , CUDA, KAFKA and ZeroMQ).

As a Software developer:

At MA Business Hub, I was mainly in charge of the development of new software systems, using C#, .NET 4.6, SQL/SQL server 2016/2018 and Crystal Reports Server pack 24. On top of that, I:

- Developing C# .NET solutions for the organization.
- Creating in-house applications using the .NET framework.
- Translate application storyboards and use cases into functional applications
- Design, build, and maintain efficient, reusable, and reliable code
- Updated and managed existing products and provided beneficial technical support to colleagues.
- Worked on the improvement of programming procedures in order to make the whole software development process more effective.
- Communicated with clients to provide knowledge, and expertise, ensuring that their requirements were fully met.
- Trouble-shot and fixed any threads and bugs.

I would like to submit my application as I believe that it would be a great opportunity for me to further grow both professionally and personally.

Thank you for your time and consideration and I look forward to speaking with you soon.

Sincerely,

Khuram Shahzad