



# MAQSOOD SHAH

Team Lead



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F-11, Islamabad, Pakistan

## Summary

- 4years of experience in software development with Masters Degree CS.
- Work with CEO and other senior technical leaders, to develop, validate and communicate the technical vision for out AI/ML/DL research and how we can best deliver value to our customers.
- Strong experience with Linux environment, Windows, macOS, Github, Python 3, C++, Python Libraries (Keras, Tensorflow, Tensorflow-gpu, Django, opencv), Django, mySQL, SQL Server, Scraping, JavaScript, HTML, CSS.
- Deep Learning CNNs Models and Algorithms for Objects Recognition, Data Analysis Techniques, Action recognition, Classification, Optimization Problems, Datasets gathering and cleaning, AI technology based on Business Problem.
- Ability to plan, design and execute on AI research, development and deployment agenda.
- Product deployment on Linux server, Kubernetes, Cloud Computing, bash scripts, VPS cloud management, deployment and maintenance (Vultr, Linode, Cloudsigma, Digitalocean, ArubaCloud), Docker, Containerization and GPU VMs, Swagger UI, Nginx, Unicorn.
- VPS cloud servers automation using Python and bash scripts.
- Project management, Scheduling, TFS, Confluence.
- Recognizable research in areas of AI/ML and Deep learning with multiple publications in this area.

## Skills

Anaconda3 | Artificial Intelligence | Balsamiq Wireframes | Cloud Computing | deep learning | Django | Docker | HTML 5 | Linux | Mac OSX | Machine Learning | Microsoft Office | MS Visual Studio | MySQL | Nginx | OpenCV | Python | Swagger

## Experience

May 2019 - Present



### Team Lead

Northcloud Co., (SMC-pvt) Ltd, Islamabad, Pakistan

- Minimal SiteDB objects recognition Fire Monitoring and Alarm System
- Smart Irrigation System for efficient use of water resources.
- Deep Learning pre-trained models for objects recognition Object Recognition Models Optimization Problems Deep Learning with Python, Anaconda 3 IDE.
- Python Libraries (Keras, Tensorflow, Tensorflow-gpu, Django) CPU, GPU hardware platform Automation of a cloud server platform.
- Lead to Android VPN app development team and vpn automation project.
- VPN cloud servers monitoring, maintenance and deployment (Vultr, cloudsigma, digitalocean and linode) Linux,windows, macOS, python 3.7, python libraries for deep learning, Django, TFS, Confluence.

- Product deployment on Linux server, Docker, Swagger, bash scripts, team lead AI projects

Jan 2018 - Nov 2018

## **Software / Research Engineer**

eveati (pvt) Ltd, Islamabad, Pakistan

- Python, Laravel, Php, Mysql, CSS, HTML, Machine Learning Artificial Intelligence Deep Learning Projects.
- Intelligent irrigation system, regression analysis of crops using ANN,SVM, MLR
- Paraphrasing app to rewrite content (NLP, Python)
- Solar Panel system management and power prediction(PHP, Laravel, MySQL,Python)
- Employee management system (Laravel , MySQL)
- Deep learning research papers implementation (Python, Matlab)
- Health chatbot (Php,Laravel,HTMLJavascript,Python).

May 2017 - Aug 2017

## **Research Engineer L2**

SoftOnNet Inc., Seoul, South Korea

Python, Linux and Python Libraries for Deep Learning

AI/ML/DL algorithms and techniques

Computer vision toolkit (OpenCV, CUDA, or others)

Two-Stream SR-CNNs (semantic region based CNNs) for Action Recognition in Videos

Sep 2014 - Mar 2017

## **Research Assistant**

JINAGSU KEY LAB, Nanjing, China

- Two Research Publication and a thesis in Machine Learning, AI and Deep Learning.
- Large datasets analysis
- Anaconda IDE, Python, and Deep learning Libraries.
- Research, design, develop and deliver Machine Learning and Computer Vision algorithms.
- Writing algorithm functional specification documentation, developing prototypes and implementing them to achieve final results.
- Resolve Technical issues.
- Execution of tasks assigned by director, report to supervisor about progress and status.
- Experienced in:
- Strong analytical, mathematical and problem solving skills.
- Hands on experience programming in Python, Python Libraries for Deep Learning and Machine Learning.

Feb 2011 - May 2013

## **Software Engineer**

Generic Engineering, Islamabad, Pakistan

- Developed few desktop applications including inventory management system with database, hotel reservation and management with database and ERD diagrams.
- Security Company desktop application for Employee management with database.
- Software Requirement Specification Document.
- Visual Studio, Sql Server, Crystal Reports, C#
- Contribute to the development of C# desktop applications including; C# and

SQLserver database.

- Create Entity Relationship (ER) Diagrams to the proposed database.
- Designed, architected, programmed WinForms, and Libraries.
- Experience in reports development using Crystal Report.
- Implemented enhancements and bug fixes.

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## Education

2017	<b>Nanjing University of Science &amp; Technology</b> M-Phill , Master of Science in engineering Computer Software Completed
2010	<b>University Of Engineering &amp; Technology, Taxila</b> Bachelors in Science , IT Software Engineering

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## Projects

### Object Recognition of indoor and outdoor devices

recognize objects indoor and outdoor using deep learning pre-trained object recognition models, python, python deep learning libraries tesnorflow, keras, gpu.

### XPN Automation

automation of a xpn product using python, vps cloud computing, bash scripts and api's

### Solar panel energy managment

Efficient use of Solar panel energy and monitoring. Billing of users. Manage the employees, managers, zones, users system.

### Employee Management System

MVC .NET web development HTML CSS Javascript OOPs SQL server 2014

### FingerPrint base Attendance

PersonaDigital fingerprint reader detection using C# employee attendance management reporting

### Payslip Application

.NET Framework desktop application telerik UI for Winforms Crystal reports

### Smart Irrigation System using WSN

datasets generation using irrigation models. regression analysis. ANN, DT, MLR algorithms.

### Indoor Segmentation Using Deep Learning

Indoor scene classification, segmentation, object detection using CNN, deep learning algorithms performance checking for indoor classification.

### Object-base Analysis Of Hyperspectral Data

Data collection, feature extraction, classification of data, segmentation of high resolution data , finding the results for performance checking of machine learning algorithms, paper writing.

### Postman Problem

Finding the shortest path, traveling banks man problem solving using artificial intelligence algorithm.

### Face Detection

Object detection, face detection, recognition of person using machine learning algorithms, computer vision techniques.

### Assignment Checking App

Reading urls, refine valid invalid urls,count the valid invalid urls, accept reject final assignment, marking.

**Security Company Database**

Employee bio data, wages, leaves management, etc

**Mobile Directory**

Employee bio data, searching, adding and updating employee bio data.

**Inventory Management System**

DB modeling, use cases, DBDesign, win forms for records entry, bank details, items details etc

**Online Mobile Manager And Position Navigation**

Symbian mobile applications for call logs, messages and user location.

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**Languages**

<b>Urdu</b> Expert	<b>English</b> Expert	<b>Cantonese</b> Intermediate
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