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| **Muhammad Hamza** |

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## **OBJECTIVE**

Seeking for a Software Developer position in a fast growing organization to utilize expertise in software development and testing, as well as deployment and support using agile development methodologies. Coming with well-honed skills in computer science and more than 2 year’s hands-on experience in Software Industry, and addition to excellent communication skills.

## **SKILLS**

* C Language, C++, JAVA, Python, MATLAB, Verilog, INTEL Assembly, Prolog, SQL, MySQL, Eclipse,
* HTML, CSS, Bootstrap, JavaScript, JQuery, Node-JS Developer, Express-JS, Full-Stack PHP & Laravel Developer.
* REST/SOAP (Web Services).
* Computer Networks, AWS Service (EC2, AMI’s, S3), Linux (Ubuntu, Fedora), Latex, Shell Scripting, Git/Github
* OpenCV, TensorFlow, Keras, Streamlit (Py Lib),
* Have proficient exposure to Relational and NoSql databases like Mongo DB, MySQL DB, SQL Server, Redis, MySQL Workbench.
* Have good knowledge of Design patterns (Adapter, Facade, Singleton, Observer, Iterator, Factory, etc)
* Self-motivated worker with strong focus on employer’s satisfaction.
* A good individual as well as a great team player.
* Have experience in enterprise applications and industrial automation products.
* Have experience of Eclipse, Apache & Nginx Servers, Visual code, Git/Github, slack, Android Studio, XAMP.

## **EDUCATION**

**Bachelor of Science (Honors), Computer Science 2016 – 2020**

* **Namal Institute Mianwali, Pakistan CGPA: 3.40**

**Major Courses:** Object Oriented Programming, Object Oriented Analysis & Design, Data Structure, Analysis of Algorithms, Data Mining, Artificial intelligence (AI), Machine Learning, Computer Vision, Computer Networking, Database Systems, Software Engineering, Operating System, Mobile Application & Development, Theory of Automata, Computer Organization & Assembly, Digital Logic Design, Numerical Analysis, Project Management.

**Intermediate in Computer Science (ICs) 2014 – 2016**

* **Board of Intermediate & Secondary Education Lahore, Pakistan Grade: A**

**Matric in Science, Computer Science 2012 – 2014**

* **Board of Intermediate & Secondary Education Lahore, Pakistan Grade: A**

## **PPROJECTS**

* **Autonomous Checkout System (FYP):** 
  + The objective of this project is to provide retailers with a computer-vision based system that keeps track of buyers and items they pick up in order that the customers may be charged rightly and save the retailers from shoplifting
* **OCR (Multi Digits Recognition System):** MDRS using CNN, Test on Own Hand Written Dataset. (Python)
* **Hand Written Digits Recognition:** A Single Hand Written Digits Recognition using KNN, SVM, etc. (MATLAB)
* **Detect Actor from a Video:** Detect an actor from each video frame using CNN model. (Computer Vision, Machine Learning, Streamlit)
* **Face Recognition:** Computer Vision based Face Recognition Algorithm using Evolutionary Theory ANN.
* **Family Chat Bot:** Natural Language Processing, a small family chat bot using Prolog.
* **Case Based Reasoning:** I have Implement a CBR for solving new problems based on the solutions of similar past problems (Python, Machine Learning).
* **Home Security System:** An IoT based System, we have to used Sensors. (IoT, Arduino, Web & Mobile App, Firebase, MySQL, Java Socket Programming).
* **Kissan Dost Mobile App:** A platform for Farmers to sell Crops, Fruits etc. Android User’s (Hackathon)
* **Sakhi Music Player:** Sakhi Music Player play mp3 music for Android User’s.
* **Azan Nursery:** A complete Website for Azan Nursery using (HTML5, CSS, Bootstrap, JavaScript, PHP, MySQL)
* **Irfan Computers & Composing Center:** A complete website for shop marketing using (HTML5, CSS, Bootstrap, JavaScript, JQuery, PHP, MySQL)
* **Green.com.pk:** An online platform for All Pakistani Nurseries to sell their products like Daraz.pk (Start-up, PHP).
* **A Paint Application:** A complete paint application (Design Patterns, Java, Swing).
* **Quick Fix:** Desktop Application, A system have different maintenance services (Design Patterns, Java, Swing).
* **Hospital Management System:** Desktop App for Tasneem Hospital to manage patient record, medicine record, finance, and Doctors Details (HML5, CSS, JavaScript, PHP, MySQL).
* **Medical Store Inventory System:** A small inventory system for medical store to manage medicine record (Java).
* **Computer Networking:** Implementation of DNS Server using TCP & UDP protocols (Java Socket Programming).
* **Linux Kernel Module:** A small Kernel Module to store data in kernel space using Linked list (Linux, C Prog).
* **Line Tracking Zumo Robot:** We have programmed a Zumo Robot using Arduino to track line (C Programming).
* **Chess Game:** A chess implementation using C++ and OOP concepts, GUI made using SDL 2D library.
* **Tic Tac Toe:** Game in C++ which is fully intelligent in which human can never beat computer.

**WORK EXPERIENCE**

* **Associate Developer at Koraspond 05/20 – Present**
* Koraspond – 360o Digital Marketing Agency in Jeddah, Saudi Arabia.
* **Internship, ClooudBuildOn, AWS 01/20 – 04/20**
* CloudBuildOn is Startup based on AWS services.
* **Director of Training, Namal Open Source Society 06/18 – 01/20**
* Namal OSS aims to promote the use and development of open-source- based software idea projects which are useful for the community inside and outside Namal Institute.

**HONORS AND AWARDS**

* PEEF (Punjab Educational Endowment Fund) Scholarship Holder (2016 – present)
* Merit Based Scholarship at Namal Institute Mianwali for BSCS (2016 – present)
* Pure Merit Based Laptop from CM Punjab Youth Initiative Program (2017)
* Winner of Namal Robo Tech-2019
* Programming Competition Winner (2017 & 2019)
* Certificate of 2-Days workshop on Security at COMSATS University Wah Campus, Islamabad.
* Certificate of completing Namal Door-to-Door and Brick Campaign at Lahore with Namal Education Foundation.

**EXTRA CURRICULAR ACTIVITIES**

* Director of Training in Namal Open Source Society (06/2018 – 11/2019)
* Head of Education Wing in Namal Society for Social Impact (3 months)
* Marketing Director in IEEE Namal Student Branch (12/2016 – 12/2017)
* Volunteer (Marketing & Management) Team Namal Education Foundation (6th & 7th Convocation at Namal)
* Work Study Program with Computer Science Department at Namal

**REFERENCES**

**Dr. Adnan Iqbal (PhD, NUST)**

Associate Professor

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