

# Muhammad Hamza

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## OBJECTIVE

Seeking for a Software 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, GoJS, Node-JS Developer, Express-JS, Full-Stack PHP Developer.
- REST/SOAP (Web Services), MVP Model, VOIP (Asterisk, AGI), IVR Tools
- Computer Networks, AWS Service (EC2, AMI's, S3), Linux, Latex, Shell Scripting, Git/Github
- Machine Learning, Computer vision, OpenCV, TensorFlow, Keras, Streamlit (Py Lib)
- Have proficient exposure to Relational and NoSql databases, MySQL DB, SQL Server, Redis, MySQL Workbench.
- Have good knowledge of Design patterns (Adapter, Facade, Singleton, Observer, Iterator, Factory etc.)
- Have experience in enterprise applications and industrial automation products.
- Have good domain of Campaign Management Systems (Message, Voice) for Telecom, VOIP solutions, call center solutions etc.
- Have experience of Eclipse, Apache & Nginx Server, Visual code, slack, Android Studio, XAMP.
- Self-motivated worker with strong focus on employer's satisfaction.
- A good individual as well as a great team player.

## 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

- **Campaign Management Tool (Jazz Business):** High speed BULK SMS/Voice and USSD delivery platforms, SMS Broadcast On Single Click, Static and Dynamic (Both English & Urdu Messages), Reporting and Analytics Dashboard, Schedule Campaigns, Gather SMS Responses On Web, REST/SOAP (Web Services), OTP Verification.
- **Telenor Smart Office:** This is complete PBX solution, A call center solution. Solution to help businesses make the most of an opportunity that comes with each call by ensuring 24/7 availability.
- **M.Ad (Mobile Advertisement, Jazz Business):** Location based Campaigns, Branded SMS Marketing, Campaign Scheduling, Campaign Response Tracking, Incentive Posting, WhatsApp response with Tracking. (SMPP, Bearer Box, Kanel PHP, Nodejs, JQuery, MySQL, Redis)
- **IVR Tool:** IVR (Interactive Voice Response) is a simple and user friendly tool for creating a call flow. (SIP, Asterisk, AGI, PHP, Nodejs, JQuery, GoJS, MySQL, Redis)
- **Eventme.app:** A user friendly platform for buying high school events tickets. Schools Portal, Clients & Student Portal, Admin Portal and Dashboard. (AWS, Nginx, Docker, Web Services, NodeJS, ExpressJS, PHP, JavaScript, Stripe Payment Gateway, Bootstraps)
- **Open Source Contribution (JMeter Plugin):** An Apache JMeter execution framework for DevOps integration for execute multiple JMeter processes and analyze the results. (Java)

- **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**

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| ▪ <b>Software Engineer at Hoboe Tech (Pvt) Ltd</b>                                                                                                                      | <b>11/20 – Present</b> |
| - Hoboetech (Your Technology Partner), 13 K commercial Model Town, Lahore Pakistan.                                                                                     |                        |
| ▪ <b>Associate Developer at Koraspond (KSA)</b>                                                                                                                         | <b>05/20 – 10/20</b>   |
| - Koraspond – 360° Digital Marketing Agency in Jeddah, Saudi Arabia.                                                                                                    |                        |
| ▪ <b>Internship, CloudBuildOn, AWS (USA)</b>                                                                                                                            | <b>01/20 – 04/20</b>   |
| - CloudBuildOn is Startup based on AWS services.                                                                                                                        |                        |
| ▪ <b>Director of Training, Namal Open Source Society at Namal</b>                                                                                                       | <b>06/18 – 01/20</b>   |
| - 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**

- Two times Employee of the month at Hoboe Tech Private Limited, Lahore.
- PEEF (Punjab Educational Endowment Fund) Scholarship Holder (2016 – 2020)
- Merit Based Scholarship at Namal Institute Mianwali for BSCS (2016 – 2020)
- 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**

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- 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**

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### **Dr. Muhammad Hussain (PhD, Japan)**

Professor

College of Computer and Information Sciences,  
King Saud University, Kingdom of Saudi Arabia

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

Associate Professor

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Namal Institute Mianwali, Pakistan

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### **Dr. Junaid Akhtar (PhD, LUMS)**

Assistant Professor

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