

# Syed Ali Umair Tirmizi

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## Career Objective

To work in enthusiastic way that help my employer achieve higher success as well as improve my working standards. To succeed in an environment of that encourages hard work and excellence as well as work with passion and integrity to help organization climb higher and achieve self-satisfaction.

## Professional Experience

### Freelance Software Engineer :

- **MCQ Checking System with Result printing and Storing**  
The application consisted of
  - Student and Test Management system built on ASP.NET MVC 5 for managing quizzes and students
  - Checking algorithm based on C++ OpenCV
  - Result printing system using C#
  - WinForm application for Excel sheet and Database management.Major contribution including front-end development.
- **Detect recyclable using Amazon Rekognition in Android (Proof of Concept)**  
Android application built using Amazon Rekognition API
  - Customized capture screen using stock Camera API
  - Getting XML tags and storing result in SQLite database along with cloud backup
  - Classification of tags between recycle items and non-biodegradable goodMajor contribution in app included web services deployment and camera API integration.
- **Effects of material and human movement on wireless signal strength with respect to RSSI**  
Unpublished study conducted independently to measure effect of building materials and human movements with respect to RSSI (Received Signal Strength Indicator).
  - Checking decrease in signal strength between common building materials
  - Observing and plotting the trend
  - Conducting experiment to see effect of human movement on signals
  - Proposing simple algorithm for counting human entering a building based on data gathered.
- **Guessing Aggressive or Passive style of driving using different classifying techniques**  
Project was done at the of pattern classification workshop where driving style was classified using Bayesian classifier, SVM ( Support Vector Machine ) and PCA using throttle opening and speed as key measurements.

## Education

<b>MS Computer Science</b>	<b>In Progress</b>
▪ Lahore University of Management Sciences (LUMS)	CGPA: 3.00
<b>BS Information Technology</b>	<b>2013 - 2017</b>
▪ Punjab University College of Information Technology (PUCIT)	CGPA: 3.38
<b>GCE A-Level</b>	<b>2011 – 2013</b>
▪ Lahore Grammar School	
<b>GCSE O-Level</b>	<b>2009 – 2011</b>
▪ Lahore Grammar School	

## Final Year Project (BS)

### **Intelligent Obstacle Avoiding Robot**

It was research and development project based on microcontroller. It is a wheeled robot designed to avoid obstacles using different sensors. Software used are Arduino IDE and for application development, Android Studio is used.

- Feedback gathering and demonstrating environment on mobile application was major goal of the project.
- Remote controlling robot through android application via Bluetooth module
- Automatic obstacle avoiding mode
- Temperature sensing and sending text via mobile to embedded LCD

### **Semester Project (MS)**

- Ustaad Application: Part of team that researched and developed prototype for teaching reading and writing to illiterate members of community. Using a user-driven approach to researching, developing and testing a prototype application to teach illiterates basic reading, writing and counting skills using mobile phone application. Android application with design principle and advance NLP technique to convert Urdu audio to text was developed and tested within rural areas of Lahore.
- Digital Payment Services (UI review of Mobile wallet applications): A research study to compare UI designs of current digital mobile wallets services in Pakistan such as EasyPaisa and SimSim. The review critiqued the design, screen flows and aesthetics of mobile application in light of design principles and proposed better solution.

### **Semester Project (BS)**

- Part of team that developed "The Hikers" as Java Web Development project – A tour management System for adventure and tour companies in JS, HTML/CSS
- Part of team that developed "Free the Corrupt" – A Java Desktop Scenario based text game
- Developed Restaurant Management System along with Delivery module as Database Semester Project
- Petters Lahore – ecommerce website developed for pet store along with inventory management on ASP.NET MVC5 platform.

### **Technical Skills**

- **Development Languages:**  
C++, JAVA, HTML, CSS, JavaScript, MySQL, BPML, ASP.NET, Android, Arduino Programming Language.
- **Designing Tools:**  
Sony Vegas Pro
- **Other Tools:**  
Microsoft Office, Microsoft Visio, Microsoft Publisher

### **Achievements**

- Appeared in Principal's Merit List Fall 2015, Spring 2016, Fall 2016, Spring 2017
- Teacher Assistant for Programming Fundamentals, OOP and Database