# Arslan Ahmad Kazmi

Computer Science graduate seeking entry level Research position.

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Lahore

#### **EDUCATION**

# Bachelor of Computer Science NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES (FAST-NU)

09/2012 - 06/2016

Lahore

- CGPA 3.40

Dean's List in Fall 2012,
 Spring 2014, Fall 2015 (GPA > 3.5)

# **PROJECTS**

#### Urdu Digit ASR (06/2017 - Present)

- Helped train and implement Urdu-language digit Automatic Speech Recogniser using Kaldi ASR toolkit and Python
- Hidden Markov Model Gaussian Mixture Model based acoustic model trained on telephonic speech
- Data used includes Debit Card Number, Expiry Date, National Identity Card Number datasets

#### 3torrent (04/2017 - 07/2017)

- Homebrew Bittorrent client for Nintendo 3DS using devkitPro, ctrulib, and
- Bencode library written in C
- Following basic Bittorrent specification
- Concurrent peers limited to 15 to run on 3ds' limited hardware and threading support
- Network TCP connections made using ctrulib and 3ds WiFi hardware

# Smart Parking System (Final Year Project) (09/2015 – 05/2016)

- A system that directs incoming users to closest available parking spots, detecting free parking spots through processing on CCTV camera feeds.
- Contains 3 modules: Admin, Server, User App
- Admin creates/updates parking maps (C++).
- Server handles runtime requests for closest available parking space locations (C++, PHP) as well as runs free parking space detection algorithm (MATLAB) on images from live parking lot CCTV camera feeds.
- User App, a mobile app that automatically loads and displays a map with directions to the closest parking space, which it receives from the Server (Android, JAVA)

#### Patient Record System (02/2016 - 04/2016)

 A simple web application that maintains patient records. Implemented using ExpressJS and NodeJS on the back-end, using Html5, CSS, and JQuery on the front-end.

#### YAL Compiler (10/2015 - 11/2015)

 Simple LL(1) parser based compiler which reduces a C-like language to pseudo-assembly low-level code. Also implemented a virtual machine to run said compiled code.

# Vontage (04/2015 - 05/2015)

 Pinterestlike social media app allowing sharing/saving of short video clips as well as picture. Created for the Android mobile platform using Android Studio, Java, PHP, and MySQL

#### Product Reviews Sentiment Analyser (02/2015 - 03/2015)

 Classified Amazon.com product reviews as negative,positive,or neutral using artificial neural network implementation of a sentiment analyser.

# Clock Time (09/2014 - 10/2014)

 Reading of clock time from analog clock face image using Hough Transform to detect clock hands, implemented using MATLAB.

## **PLATFORMS**



## **ORGANISATIONS**

Center For Language Engineering (KICS-UET) (06/2017 – Present)

#### RESEARCH

- \* Real Time Water Rendering
- \* Extraction of Planar Geometry from Video for SLAM
- \* Blockchain Applications using HyperLedger

# **ONLINE COURSES**

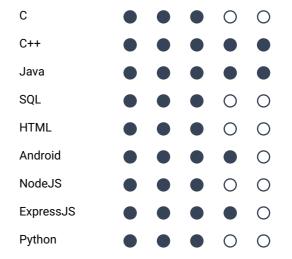
Coursera - Machine Learning (Stanford University) (10/2017 – Present)

Learned machine learning concepts including Linear Regression, Gradient Descent, and Neural Networks.

Edx - CSE167x Computer Graphics (UC San Diego:) (09/2017 - Present)

Created a 3d model viewer as well as a Ray-tracing Engine

## **SKILLS**



## **INTERESTS**

Computer Graphics Computer Vision

Machine Learning Augmented Reality

Virtual Reality