TANVEER SHAIKH

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EDUCATION

University of Illinois at Chicago **(Expected Graduation) May – 2019**
MS in **Computer Science** with a concentration in Machine Learning | **Cumulative GPA:** *4.0*
Relevant Coursework: Computer Algorithms – I, Applied Artificial Intelligence and Data Mining & Text Mining

University of Mumbai, K.J. Somaiya Institute of Engineering and Information Technology
July – 2015
Bachelor of Engineering in **Electronics and Telecommunication** with *First Class*

PROFESSIONAL SKILLS

- **Languages/Frameworks:** Java, C, C++, SQL, Python, Flask, Django, R, C#, VB and COBOL
- **Web Technologies and Mobile Development:** HTML5, CSS3, Bootstrap, JSON, jQuery, AJAX, XML, WordPress and Android SDK
- **Server-Side Technologies/Databases**: PHP, ASP.NET, MySQL, IBM DB2 and MS SQL
- **Operating Systems:** Windows, RedHat Enterprise Linux 5, Ubuntu and Mac
- **Version Control Systems & Build Tools:** Git (Github and Bitbucket), SVN, Maven and Gradle

WORK EXPERIENCE

Teaching Assistant, University of Illinois at Chicago, Illinois **Jan 2018 – Present**
CS 361 : Computer Systems Programming

Full Stack Web Developer, CPConverge Inc., Mumbai, India **June 2016 – July 2017**

- Developed on the codebase of the flagship cloud-based product – Converge (http://www.cpconverge.com) which is being used by educational institutions for analysis and management of student data
- Leaded the development of Converge using WordPress Content Management System (CMS) and provided contributions to make it more responsive using Bootstrap, jQuery, PHP and MySQL
- Analyzed all facets of the technology including cross-platform app deployment and product feature decisions
- Proactively customized our Android App by enhancing its User Interface and User Experience whilst connecting it with remote databases, thereby, reducing launch-time and increasing efficiency by 42%

Product Developer, DXC Technology (formerly known as CSC), Mumbai, India **August 2015 – May 2016**

- Developed code-fix enhancements on DXC's proprietary information system SMART/400 on IBM iSeries (AS/400) using COBOL which is being used for managing databases and client details by the insurance company HDFC Life
- Collaborated with TEBT Team and remodeled Business Objects according to client's requirements in order to integrate Backend Databases on IBM DB2 with Frontend User Interface developed by Tata Consultancy Services
- Remodeled the existing information system, according to the new 'Swachh Bharat Cess' tax rule levied in 2015, which is being used by national banks for maintaining client details

ACADEMIC PROJECTS AND PAPERS

Location-based Services for Customizing Mass Media Communications

- Developed an embedded system which displays targeted advertisements to commuters using a GSM and a GPS module, interfaced with two microcontrollers in a master – slave configuration
- Published a Research Paper named "Location-based Dynamic Advertisements Structure for Public Transit Systems" in Vol. 4 – Issue 03 (March – 2015), International Journal of Engineering Research & Technology (IJERT), ISSN: 2278 – 0181. https://goo.gl/tfpzJF

Email Spam Classifier using Support Vector Machines (SVM)

- Determined the vocabulary list by carefully choosing only the most frequently occurring words in spam Emails from the data observed in Emails from Spam Assassin Public Corpus
- Mapped each word in preprocessed Email with sequential indices assigned to words in the vocabulary list and flagged the word if it existed in the vocabulary list
- Utilized the then extracted feature vector to predict if that Email is spam or not by using the trained SVM classifier

Image Compression using K-means clustering algorithm

- Deployed K-means algorithm on pixels of a 128x128 color image which can instinctively cluster similar data together
- Efficiently representing the image by reducing the number of possible colors of pixels to 16 colors. Achieved this using K-means by finding the 16 colors that best group the pixels

Collaborative filtering based TV show recommender system

- Aimed at predicting ratings for the shows that users have not yet rated, thereby enabling us to recommend shows with highest predicted ratings to the user
- Applied collaborative filtering learning algorithm to a dataset of TV show ratings consisting of ratings on a scale of 1 to 5