# SHUBHAM GONDANE

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## OBJECTIVE

Seeking full-time positions starting summer 2019.

## EDUCATION

- Arizona State University, Tempe, AZ — Fall 2017 - current
  Master of Science in Computer Science — GPA 3.72
- Vishwakarma Institute of Technology, Pune, India — August 2013 -May 2017
  Bachelor of Technology in Computer Engineering — CPI 8.36/10.00

## TECHNICAL SKILLS

- Programming: Python, Java, C, SQL, HTML, CSS and JavaScript.
- Frameworks and tools: R, Qlikview, Hadoop MapReduce, Apache Spark, AWS, C#.NET

## ACADEMIC PROJECTS

**Real Time Character Recognition** **08/2016 – 05/2017**

- Developed an application to classify hand drawn patterns on Android phones.
- Implemented Discrete Fourier Transform to extract features. Handled data collection and preprocessing on the SQLite database.
- Developed clustering and classification models (SVM and HMM) to compare accuracies which led to final application accuracy of 87 percent using HMM.

**Get-a-tutor Web Application** **06/2015 – 12/2015**

- Designed a website for students to search for tutors in their area.
- Developed the front-end of the website along with features such as SMS and Email notifications.
- Designed the database using MySQL and handled the user interaction on the frontend with the use of AngularJS.

**Movie Recommender System** **08/2017 – 11/2017**

- Developed an application that takes input from user and recommends movies based on the inputs.
- Implemented time weighted TF-IDF model and probabilistic relevance feedback model for Movie Lens and IMDB movie database.
- Developed matrix decomposition and tensor decomposition models like SVD, PCA, CP to reduce dimensionality.
- Implemented Locality Sensitive hashing algorithm that hashes similar movies to same bucket.

**Image Recognition as a Service** **02/2018 – 04/2018**

- Developed a web application that takes image URLs as input and runs a deep learning image recognition model to give the output.
- Developed an elastic application that can automatically scale out and in on demand using the cloud resources from Amazon Web Services (AWS).
- Implemented a load balancing algorithm to handle multiple request simultaneously that will reduce the running EC2 instances to 2 when there are no requests and increase instances up to 20 depending on the number of incoming requests.

**Co-reference resolution in clinical text data** **02/2018 – 04/2018**

- Implemented concept extraction for extracting concepts like Patient, Treatment, Test, Pronoun and Person.
- Performed annotation of these concepts and implemented an algorithm to form concept pairs.
- Developed features for the concept pairs and built a classifier using SVM to classify these concept pairs into co-referent pairs.
- Developed an algorithm for combining the co-referent pairs into a valid co-referring chains.

## CERTICATIONS

- Deep Learning Specialization, Coursera **03/2018**