

# Vaibhav Joshi

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## Education

### Rochester Institute of Technology

MASTER OF SCIENCE IN COMPUTER SCIENCE (3.5 / 4.0)

Rochester, NY

Aug 2018 - Dec 2020

## Skills

Languages	Proficient: Python, Java   Intermediate : C   Familiar with : R, MATLAB, Assembly, Prolog
Web Technologies	HTML/CSS, JavaScript/jQuery, Bootstrap, JSON, REST-API, Node.JS, PHP
Database	MySQL, PostgreSQL
Other Technologies	Flask, AWS S3, Git, Tableau, Mininet, TensorFlow, Scikit-learn, Jupyter, Pandas, Docker, JIRA

## Work Experience / Internships

### AMAZON

Seattle, WA

#### SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2019 - Aug 2019

- Generated useful metrics to analyse Alexa's misidentification rate for phonetically similar words in customer utterances. Employed a combination of Levenshtien distance and phonetic algorithms (Soundex, Metaphone-3) to pinpoint the words. Metrics were used to improve Alexa's speech-to-text model.
- Devised an end-to-end, locale-based mechanism that automated and streamlined the existing manual and technical approach for adding items to Alexa's database. Tech stack consisted of Flask, AWS S3, REST API, JavaScript. Lead to noticeable reduction in development times of data associates

### BHASKARCHARYA INSTITUTE OF SPACE AND GEOINFORMATICS

Gandhinagar, India

#### RESEARCH AND DEVELOPMENT INTERN

Dec 2017 - April 2018

- Implemented a web-based solution streamlining the operation of GeoServer right from workspace creation to shapefile rendering. Integrated custom REST API with underlying Geoserver API with a Java backend. Lead to noticeable reduction in the development times of BISAG scientists.
- Rendered shapefiles as full-fledged maps on Geoserver with added distance measuring and label marking capabilities. Shapefiles loaded in PostgreSQL 10.

## Projects

### FEATURE EXTRACTION FOR COMPELLING TALKS

LSTM, Graph CNN, OpenPose

AUGUST 2020

- Identified the key body skeletal features that influence the popularity of Ted Talk videos via classification. Modeled the body skeletal coordinates via LSTM, Graph CNN and Random Forest. Achieved 45% accuracy on par with the state-of-the-art.

### AMAZON REVIEW ANALYSIS

Python, Tableau

APRIL 2020

- Mined Amazon customer reviews for detecting trends and generating insights. Employed Birch clustering to group book reviews and SVM for classifying helpful reviews with 70% accuracy. Visualized trends and extracted underlying patterns via Tableau.

### NET2TEXTQUERY

Flask, HTML/CSS, MySQL

DECEMBER 2019

- A web-based application facilitating query-based network traffic analysis. Inspiration drawn from [Net2Text](#).

### MY USED CAR SEARCH WITH TABLEAU

Tableau

SEPTEMBER 2019

- Greatly eased and accelerated my search a used car by visualizing an extensive Craigslist dataset on Tableau.

### DATA STRUCTURES AND ALGORITHMS VISUALIZATION

JavaScript, SVG.js, jQuery

APRIL 2017

- An interactive tool aimed to learn popular data structures/algorithms asked in tech interviews. Deployed [live](#).