

Vaibhav Joshi

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in [Vaibhav Joshi](#)

🐙 [Github](#)

EDUCATION

Rochester Institute of Technology

Master of Science, Computer Science

Rochester, NY

Aug 2018 - Dec 2020 (expected)

Dharmsinh Desai University

Bachelor of Technology in Computer Engineering

Nadiad, Gujarat, India

August 2014 - May 2018

KEY SKILLS

- **Languages:** Python, Java, C, R.
- **Database:** MySQL, PostgreSQL
- **Web Technologies :** HTML, CSS, JavaScript, jQuery, Bootstrap, Materialize CSS.
- **Other Tools/Frameworks:** Flask, AWS S3, Git, Tableau, Mininet.

EXPERIENCE

Amazon

Software Development Engineering Intern

Seattle, WA

Summer 2019

- Analyzed customer utterances on Alexa to extract phonetically similar words that may be misinterpreted by Alexa. Used a combination of Levenshtien distance and phonetic algorithms (Soundex, Metaphone-3) to pinpoint the words. Analyzed utterances were to be provided to the voice modeling team for improvements.
- Designed and implemented an end-to-end mechanism that automates the existing manual and technical approach for adding items to Alexa's database per locale. Infrastructure consisted of Flask, AWS S3 and REST API. Saved valuable time of data associates and development.

Bhaskaracharya Institute of Space and Geoinformatics

Research and Development Intern

Gandhinagar, Gujarat, India

Dec 2017 - Apr 2018

- Implemented a web-based solution streamlining the operation of GeoServers right from workspace creation to shapefile rendering. Intergrated custom REST API with underlying Geoserver API with a Java backend. 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

Amazon Review Analysis

April 2020

Python, Tableau

- 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. Used Tableau for visualizing trends and underlying patterns.

Custom SDN Controller

November 2019

Python, Mininet, OpenFlow, Oracle VM

- Designed and implemented a Custom Software Defined Networking (SDN) Controller in Python mimicking (minimal) functionalities of Ryu, OpenFloodLight. Deployed the network via Mininet and Oracle VM via the OpenFlow protocol.

CustomNet2Text

December 2019

Python, Flask, MySQL

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

Finding A Used Car

September 2019

Tableau

- Accelerated my search for a used car by visualizing an extensive Craigslist data via Tableau.

Data Structures and Algorithms Visualization

April 2017

JavaScript, SVG.js, jQuery, HTML/CSS

- A GUI based interactive tool to learn popular data structures and algorithms commonly asked in interviews. Deployed [live](#).

*Updated June 06, 2020