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Vaibhav Joshi

718 Park Point Drive, Rochester, NY 14623

585.309.1539 vaibhav.joshi231@gmail.com vaibhavjoshi.me Vaibhav Joshi Github

EDUCATION

Rochester Institute of Technology — **Rochester, NY**
Master of Science, Computer Science — *Aug 2018 - Dec 2020 (expected)*

Dharmsinh Desai University — **Nadiad, Gujarat, India**
Bachelor of Technology in Computer Engineering — *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 — **Seattle, WA**
Software Development Engineering Intern — *Summer 2019*

- Analyzed customer utterances on to extract phonetically similiar 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 — **Gandhinagar, Gujarat, India**
Research and Development Intern — *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 — **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. Used Tableau for visualizing trends and underlying patterns.

Net2TextQuery — **Python, Flask, MySQL**
December 2019

- A web-based application facilitating query-based network traffic analysis. Inspiration drawn from Net2Text.

Custom SDN Controller — **Python, Mininet, OpenFlow, Oracle VM**
November 2019

- Designed and implemented a from-the-scratch 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.

Subreddit Classifier — **Python,Scikit-learn**
January 2019

- Performed comparative analysis of various classifiers such as Naive Bayes, Random Forest, SVM via Subreddit classification. Accuracy in range of 85-90%.

Data Structures and Algorithms Visualization — **JavaScript, SVG.js, jQuery, HTML/CSS**
April 2017

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