Dhruv Patel

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EDUCATION

University of Southern California – Viterbi School of Engineering

Master of Science in Computer Science

Los Angeles, CA

May 2020

Dharmsinh Desai Institute of Technology

Nadiad, India

Bachelor of Technology in Computer Engineering; GPA - 9.07/10.0 (Rank: 5/133)

May 2018

TECHNICAL SKILLS

• Languages: Python, JavaScript, C, C#, Java, HTML, CSS, PHP, SQL, NoSQL, R

• Technologies: Django, Slim, Flask, Node.js, AngularJS, REST, D3.js, Heroku, MongoDB, CoreNLP, NumPy, Sklearn

PROFESSIONAL EXPERIENCE

Indian Institute of Technology, Bombay

Mumbai, India

Research Intern at Center for Indian Language Technology

Dec. 2017 - Apr. 2018

- Built a RESTful API for "A Wordnet based E-Learning Tool for Language Learning" using Django Framework to resolve issue of Database Synchronization leading to duplicate data in database.
- Devised a Morphological Analyzer which inspects the internal structure of words to obtain certain features of words such as root word, category, and gender.
- Performed Lexical Simplification of a sentence under the guidance of Prof. Pushpak Bhattacharyya which involves simplifying complex sentences in the Wordnet inorder to educate language learners.

PERSONAL PROJECTS

Autonomous Education System ?

May 2018 - June 2018

Python, Django, Angular 5

- Created multiple Web Services with OAuth 2.0 authentication for inserting, retrieving and deleting contents of the database.
- Developed the client-side with features such as news feed displaying, record insertion UI, accountancy dashboard and online test simulator.

Word Complexity Detector Ω

Sept. 2017 - Oct. 2017

Python, CoreNLP

- Built a feature based model to obtain various characteristics of words such as syllable count, etymology, morphemes and n-Gram for word complexity detection.
- o Computed the score between a specific word and its synonyms to detect word usage patterns in English grammar.

P2P File Transfer 🗘 🗹

Mar. 2017 - Apr. 2017

Node.js, Peer.js, webRTC, Heroku

- Designed a real-time browser-to-browser communication system for transferring files from one device to multiple devices without uploading files to the server.
- Engineered the solution of asynchronous merging of blobs of same file which resulted in out of sequence data delivery using acknowledgement generation.

Restaurant Automation

Sept. 2016 - Nov. 2016

ASP.NET, Microsoft Azure, Stripe

• Constructed an automated restaurant management system with various features such as table reservation, menu selection, bill payment, memberships, and payment gateway.

Minesweeper – The Game (7)

Dec. 2015 - Jan. 2016

HTML, CSS, P5.js

 Programmed the famous minesweeper game and executed modified version of flood fill algorithm to display boxes which do not have mines.

ACTIVITIES & INVOLVEMENTS

- Finished in the Top 100 in TCS Code Vita 2016 amongst 3000 participating teams.
- Guided several people in learning JSON, AJAX and XML by producing video tutorial series for specific concepts on GitHub.
- Organized various seminars on Blockchain, and Linux as part of Committee Member of Computer Society of India.