Bengaluru-560064
Karnataka, India

# APURVA SINGH

LINKEDIN | GITHUB | WEBSITE | MEDIUM

(+91) 9409288260
asinghvirgo@gmail.com

## EMPLOYMENT

| Product Engineer | Dimension Labs, SLK Software Services Pvt Ltd | July 2017 – Present |
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- *Webocular : Dead URL Detector*
    - The plugin facilitates easier detection of broken or dead links that are present in your website and can be very crucial to prevent customer loss due to inaccessible URLs.
    - With features like text and image search while crawling we can make sure that the pages of the website have the logo and copyright text empirical for every company to establish its brand.
    - Crawling of the URLs is done using threads which enables crawling of hundreds of URLs within minutes.
- *Performance Test Automation Framework*
    - Features like dry-run, record and play support with Chrome, Firefox and IE for automated python load test script generation making it zero-code framework.
    - Added live test statistics including request-wise median, average and min-max response time, average content size. Responsive graphs also included for time wise statistics.
    - Added master-slave architecture which achieved distributed load testing with 1000 virtual users on a single Windows machine and 10,000 virtual users on a single Linux machine.
- Mentored an intern in building a *Test Data Management Tool* for generation of fake test data similar to production data. Support for Cassandra, MongoDB, MySQL, MsSQL Server. Also included support for masking of test data using techniques like substitution and shuffling.

| Product Engineer, Intern | Dimension Labs, SLK Software Services Pvt Ltd | January 2017 – May 2017 |
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- Eliminated the need of a product guide by introducing a chat bot which could answer different usage questions about the product. Used Cosine Similarity, stemming, keyword matching in developing the bot using python.
- Created a web-based programming contest platform for hosting coding competitions in SLK. Revamped DOMJudge, an open source project and added features according to our requirements.

| Research Intern | DA-IICT Gandhinagar | Summer 2014 |
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- Worked on building Unit Selection Synthesis based Text to Speech System for visually challenged person to use computer based on voice command.

## EDUCATION

| Jaipur | The LNM Institute of Information Technology | August 2013 – May 2017 |
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- Bachelor of Technology in *Computer Science and Engineering*, May 2017. CGPA: 7.45
- Undergraduate Coursework: *Operating Systems; Databases; Algorithms; Programming Languages; Computer Architecture; Data Structures; Object Oriented Programming.*

| Ahmedabad | Maharaja Agrasen Vidhyalaya | 2012-13 |
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- *All India Senior Secondary Certificate Examination,* 92.8%

| Ahmedabad | Maharaja Agrasen Vidhyalaya | 2010-11 |
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- *All India Secondary School Examination*, 9.20/10

## TECHNICAL EXPERIENCE

**Projects**

- **Sentiment Analysis of Movie Reviews** (2016). Achieved an accuracy of 85% in identifying if the review was positive or negative one; Datasets of IMDb, Rotten Tomatoes were used and trained using Neural Network. TensorFlow, Python.
- **LUSIP (LNMIIT Undergraduate Summer Internship Program)** (2016). As part of Technical Team of LUSIP 2016 made a portal for Summer Internship program of our college. Students could apply to different research projects under various faculty through the portal. PHP, MySQL, HTML, CSS

## ADDITIONAL EXPERIENCE AND AWARDS

- **Teaching Assistant (2014, 2015):** assisted in lab work for Computer Programming Course and IT Workshop Course.
- **IEEE WIE Student Chapter (2013/14/15):** was Secretary, Vice Chair and Chairperson in consecutive years and helped organize various events like women safety workshop etc.
- Placed *Third* in Bangalore in *Intuit Code Wars Challenge* on **HackerEarth**.
- Stood *First* in *25K SLK Codeathon*.
- Currently a volunteer at *Youth for Seva*

## LANGUAGES AND TECHNOLOGIES

- Python(Proficient); C++(Intermediate); C(Intermediate); Java (Beginner); R(Beginner); PHP(Beginner); SQL(Beginner); JavaScript(Beginner); Flask(Intermediate); MongoDB(Intermediate); MATLAB(Intermediate); Linux(Proficient); Windows(Proficient); NodeJS(Beginner); AngularJS(Beginner)

## PUBLICATIONS

A MASK BASED APPROACH FOR LOSSLESS IMAGE STEGANOGRAPHY in *Twenty-first Americas Conference on Information Systems, Puerto Rico, 2015. (link)*

- Lossless recovery with high payload capacity and low error magnitude measured through PSNR values. Implemented on MATLAB.
- Provides multilevel security through XOR mapping image pixels with Arnold Transform, resulting in zero data loss.