SAHIL DUA

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EDUCATION

Netaji Subhas Institute of Technology (NSIT)   New Delhi, India
B.Tech in Electronics and Communication Engineering   Expected 2016
   Aggregate Percentage: 80.8% (Top 10% of Class of 2016)
   Relevant Coursework: C, C++ Programming, Basic / Advanced Data Structures and Algorithms
   Independent Coursework: Introduction to Recommender Systems, Web Application Architectures,
Distributed Web Applications, Algorithms: Design and Analysis (Stanford University)

WORK EXPERIENCE

Zomato   Gurgaon, India
Trial Week Intern   Fall 2015
- Developed web application for Zomato Room – Table Management Tool using SLIM framework
- Designed algorithm for displaying chairs around different types and sizes of tables
- Languages/frameworks used: PHP, SLIM framework, MySQLi, JavaScript, jQuery, Fabric.js

HackerRank   Bangalore, India
Software Intern   Summer 2015
- Prepared Code Review problems for HackerRank for Work clients
- Achieved 100 millisecond improvement in page load time by reducing size of JS files by 10%
- Developed a working prototype to prove the integration of test driven development problems for HackerRank X
- Languages/frameworks used: C++, Ruby on Rails, MySQLi, Backbone JS, CoffeeScript

Refiral   New Delhi, India
Product Developer (Backend)   Winter 2013 – Fall 2014
- Developed server-side API powering the entire marketing tool, resulting in acquisition of first 100 clients
- Wrote integration extensions for various e-commerce platforms using 3rd party APIs
- Featured by Inc42 and YourStory, raised $330k of angel round funding from Cogent Services
- Languages/frameworks used: PHP, SLIM framework, MySQLi, JavaScript, jQuery

AWARDS AND SKILLS

Achievements: Ranked among top 6% programmers of India on HackerRank and SPOJ
   Secured Asia-Pacific rank 73 & All India Rank 17 in Google APAC 2016 University Test
   Cleared Qualification round of Google Code Jam 2014, 2015 and Facebook Hacker Cup 2015
   Won Google's Best Documentation Award in InOut Hackathon organized by SVNIT, Surat
   Won DuckDuckGo's Best API Incorporation Award and overall 2nd prize in InOut Hackathon
   Ranked 12 across India in a 24 Hour Programming Competition organized by IEEE
   Awarded Gold Medal for being State Board Topper in Matric Examination

Technical Skills: C, C++, PHP, SLIM framework, Python, MySQLi, JavaScript, Backbone JS, CoffeeScript,
jQuery, REST API, Natural Language Processing, Git, Algorithms, Data Structures, SQL, JSON

PROJECTS

Natural Language Processing (Ontology for Hindi Language)   Winter 2014 - Present
- Studied and developed model for finding and detecting hyponyms in corpus of Hindi language text
- Developed Context Identification and Probabilistic Bigram Language Model using TF-IDF model
- Studied Latent semantic analysis, Contextual and Hierarchical clustering
- Languages/tools used: Python, C, C++, word2vec, TF-IDF modeling

In-memory Cache Routine (https://github.com/sahildua2305/CachingRoutineAPI)   Fall 2015
- Implemented LRU (Least Recently Used) algorithm to handle the object replacement from the cache
- Used Socket module to implement the connection protocol and enabled the cache routine to listen to a particular
port to enable the client routine to interact with it for accessing the objects directly from the cache
- Developed a Django based REST API and tested the cache routine
- Languages/tools used: Python, Django framework, Socket (low-level networking interface for Python)