Varun Hegde

FULLSTACK DEVELOPER

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Education

National Institute of Technology, Karnataka, Surathkal, India   *CGPA: 8.10*

B.TECH. IN INFORMATION TECHNOLOGY   *July. 2011 - May. 2015*

Work Experience

Zenparent   *Bangalore, India*

TECHNICAL LEAD   *May. 2015 - Present*

- Implemented Web Scrapers and ETL tools to aid faster content creation. Used Scrapy and Xpath for scraping purposes.
- Developed a cross-platform mobile application using Apache Cordova, React JS, Redux for state management and Onsen UI for providing the native mobile experience. The app is available on **Playstore** and **Appstore**.
- Implemented a real-time chat system using Pusher, a Websocket service over cloud.
- Developed an article recommendation system using NLP techniques like keyword extraction and Apache Solr MoreLikeThis search component for querying articles with best keywords match.
- Built and deployed service infrastructure comprising of Load Balanced Web Servers with a Shared NFS, Memcached for Page and Object caching, Apache Solr as an Indexing Server and CDN for serving static assets using AWS stack(EC2,Route 53, CloudFront, RDS, ElastiCache).
- Implemented the website UI and backend services for the web and mobile clients.

Athletto   *Bangalore, India*

FREELANCE CONSULTANT   *Nov. 2016 - May. 2017*

- Designed and implemented a REST service for the customer wallet module using Laravel.
- Implemented a generic Laravel SMS Driver to support a variety of SMS service providers.

Internships

RupeeSafe, Venture Factory   *Bangalore, India*

SOFTWARE DEVELOPER INTERN   *May. 2014 - July. 2014*

- Developed a prototype for an E-commerce product which aimed to solve trust issues in Cash on Delivery.
- Designed and implemented RESTful API server using Spring.
- Implemented Token based Authentication using Spring Security.
- Implemented Queue based Job System using Spring Batch.
- Deployed the application on Apache Tomcat with Apache acting as a Reverse Proxy.
- The project code can be accessed **here**.

HandsTel   *Bangalore, India*

SOFTWARE DEVELOPER INTERN   *November. 2014 - December. 2014*

- Developed an Android App to track kids using Smartwatches.
- Reverse Engineered the app accompanying the Smartwatch by extracting the source files from the APK using dex tools, implemented location tracking module using Google Maps.
- Implemented the backend service for the community version of the app.
- The project code can be accessed **here**.

Projects

Bubble Pic Frames   *Surathkal, India*

ANDROID APPLICATION   *December. 2013 - April. 2014*

- Developed an android application which enables users to create collage using bubbles. Available on **Playstore.**
- Implemented algorithms to move and scale the bubbles with user gestures.
- Integrated Libgdx Physics Engine to simulate the movement of a real-world bubble, Aviary Image SDK for adding special effects.

A Graph Based Technique to Find Common News Contents From Multiple News Sources   *Surathkal, India*

RESEARCHER FOR DATA MINING AND INFORMATION RETRIEVAL UNDER THE GUIDANCE OF PROF. SOWMYA KAMATH   *January. 2014 - April. 2014*

- Designed and implemented a graph based algorithm to find the common news contents.
- The project involved extracting content from RSS feeds of the news channels, NLP techniques to extract keywords and implementation of Document Distance Algorithm to calculate the Similarity Index between news items.
- Involved skills on Natural Language Processing, XML parser and Java.
- The project code can be accessed **here**.

Undergraduate Research, Popularity of Social Multimedia   *Surathkal, India*

RESEARCHER FOR POPULARITY OF SOCIAL MULTIMEDIA UNDER THE GUIDANCE OF PROF. G. RAM MOHANA REDDY   *July. 2014 - May. 2015*

- Researched on the factors that affect the popularity of a social multimedia.
- For images we considered low level features, image content and social cues as the predictor variables and image views as the target variable. Used Spearman's rank correlation for evaluating the model.
- Implemented Support Vector Regression to predict views of an image, using python scikit-learn ML library. The images were queried using Flickr API, image tagging was done with Clarifai API.
- Designed and implemented alogorithms for dynamic real time clustering of Tweets using Twitter Streaming API. The implementation was done with python.
- The project code can be accessed **here**.

Web Service Discovery and Recommendation   *Surathkal, India*

RESEARCHER FOR WEB SERVICE DISCOVERY UNDER THE GUIDANCE OF PROF. SOWMYA KAMATH   *July. 2014 - December. 2014*

- Implemented DBSCAN algorithm for clustering similar WSDL Files.
- Evaluated the quality of clustering with Silhouette Coefficient.
- Involved skills in Natural Language Processing techniques for text analysis, DISCO for semantic similarity and python for implementation of the DBSCAN algorithm.

Technical Skills

Programming/Scripting Languages - JavaScript, Python, PHP, Java, Bash, SQL

Mobile Technologies - Android, Apache Cordova, React Native

Web/Application Servers - Apache, Nginx, Tomcat

DataStores - MySQL, Apache Solr, Memcache

Backend Tools/Frameworks - Laravel, Spring, Flask, Hibernate, Wordpress Plugins

Frontend Tools/Frameworks - ReactJS, Redux, Webpack, Bootstrap, OnsenUI, jQuery, Handlebars, Gulp

Other Technologies - AWS (EC2 RDS ELB R53 CDN), Websockets, Oauth2, Vagrant, Docker, Git