

# Vamsi Krishna Srungarapu

Contact No: [+91-7760965165](tel:+91-7760965165)

E-mail: [srungarapu1989@gmail.com](mailto:srungarapu1989@gmail.com)

## PROFESSIONAL EXPERIENCE

- Software Architect at Modak Analytics;

[March 2017– Till Date]

[Gene Analysis Project]

Leading a team of 5 (UI and Backend resources)

Porting Hail code from 0.1 version to 0.2 for all the pyspark code

Applying Regression Analysis and Mixed Models to genes for GWAS

Creating a Data Scientist WorkBench to allow Data Analysis perform visual programming.

**Skills:** Python, Scala, PySpark, Spark, GPU, ruby

[Edge Node On Demand Project]

Leading a team of 5 (UI and Backend resources)

Designed and developing a scalable microservices architecture

Wrote a micro service in python to read the user requests and invoke multiple asynchronous tasks based on the request

Wrote Dockerfiles to containerize all the microservices

Wrote ansible playbook to spin up docker containers on demand on multiple clusters

Designed authentication architecture for the microservices communication

Designed the Services Discovery of all the micro services

**Skills:** Scala, Python, MicroServices, REST, Docker, Netflix Eureka, Ansible

- Software Development Engineer -II at Amazon;

[Sep 2016 – March 2017]

Part of Payments Team

Took transition from Bangalore Gift Cards team to Hyderabad Gift Cards Team

Designed and developed a feature to stop the user from trying to claim gift cards randomly N number of times

Rebranded Amazon.in Gift Cards to Amazon.in Pay balance

**Skills:** Java, MicroServices, DynamoDb, SQS

- Software Development Engineer at Ionos Networks;

[2015- Sep 2016]

Designed and developed the backend for Ionos portal in php

Streaming pipeline for processing the live events

- Our devices send raw data to our back end servers. User expects some metrics out of the raw data in real time.
- Responsible for designing the entire pipeline and developing it for this use case

Batch processing pipeline for processing the raw events

- Responsible for crunching the data and derive insights out of the data residing in database .
- Took design decisions in this project and developed it taking it to production.

Migration from MySQL to Cassandra

- Responsible for migrating the MySQL data to cassandra
- Wrote spark jobs which read data from mysql and dumped in cassandra
- As part of migrating I did data modeling for cassandra column families

Wrote stored procedures for processing raw data in MySQL  
Developed front end portal to show analytics using backbone.js  
Converted backend into an api-driven system

- Decoupled front end and back end by converting the entire system into api-driven system
- Used play framework and Scala to create api's

Responsible for ensuring high availability of the Ionos back end

Skills: Java, Scala, Kafka, Spark, Spark Streaming, Cassandra, MySQL, php, javascript, backbone js

- Software Development Engineer-1 at Amazon; Worked on a project related to Access Management

[Jun14 – 2014 End]

Developed and maintained an internal web application which manages permissions of employees on hosts and membership in groups.

Transitioned ownership of a couple of tools from Seattle team to India Team

Skills: Java, Perl, Javascript.

- Software Development Engineer –Intern at Amazon; Worked on designing and implementing a generic, extensible web application for debugging multiple services.

[Dec 13 – Jun 14]

Designed and developed a generic, extensible unified data debugger.

Designed and developed a self-service visual debugger for debugging several web applications.

Skills: Java, Spring, Javascript, HTML, Javascript InfoVis Toolkit(JIT js)

- 2 years of experience as Systems Engineer at Infosys Ltd;

[Jun 10 – Jul 12]

Responsible for ensuring high availability of a U.S based client's backend system

Developed a monitoring/alert system for the backend code and servers.

Skills: Java, Struts2, Javascript, Shell Script, MySQL

## **EDUCATION**

- **Masters of Technology** [Software Engineering] [2012-`14]

International Institute of Information Technology Bangalore, CGPA - 3.62/ 4.

**Courses:** Object Oriented Analysis and Design, Design Patterns, Data Analytics, Web Information Retrieval, Data Structures and Algorithms

- **Bachelor of Technology** [Electronics and Communication Engineering] [2006-`10]

Gandhi Institute of Technology And Management, Visakhapatnam, CGPA – 9.03/10.

**Courses:** Computer Networking, Programming Languages, And Digital Electronics

## **ACADEMIC PROJECTS**

- **Data Analysis on Sports Men Wikipedia text** (Team Size: 2) [Jul-Sep 2013]

Performed exploratory, predictive, clustering and classification on Sports Men Wikipedia Text in Python, R

- **eBay Prototype** (Team Size:7, Role : Team Lead) [Jan-Mar 2013]

Built a prototype of the e-commerce website eBay using jsp, struts2, tiles, JavaScript in MVC framework.

- **Stripped down OS for light weight virtual machines** (Team Size:4, Role: Team Lead) [Jan-Mar 2013]

This project deals with building two small Virtual Machines, which are light, weight, capable of running only a single application or service on them. They should not have any other features and daemons, which are not required by the service or application. Out of the two applications one is network-intensive and the other is non-network - intensive.

- **Content Based Search in Ubuntu** (Team Size:3) [March 2013]

Created a desktop-based application for debian based operating systems (tested with ubuntu) which has capability to perform context-based search in pdf documents.

- **Optimized fleet schedule in Supply Chain Management** (Team Size:5, Role : Team Lead) [Aug-Nov 2012]  
Worked on finding an optimized algorithm for fleet scheduling in SCM project funded by Infosys Ltd.
- **Virtual file System in C** (Team Size:4, Role : Team Lead) [Aug-Nov 2012]  
Implemented an abstraction layer to manage information about files and folders present in the hard disk. Data structures used are N-ary Tree, BST, Hash table.
- **EForum** (Team Size:3, Role : Team Lead) [Nov-Dec 2012]  
Built a prototype of the Stack Overflow website using jsp, struts2, tiles, JavaScript in MVC framework.

## **HOBBY PROJECTS**

- **Text Summarize**  
This project creates a summary of a given huge text. The number of lines in the summary is configurable. This is an implementation of Lex Rank algorithm in Python.  
Source Code : <https://github.com/vamsi2018/TextSummarize>
- **Semi Anonymous Chat Engine**  
Built a web based chat application where users can chat with other online users
  - o Privately
  - o Anonymously
  - o Group ChatUsing NodeJs, HTML, Javascript, CSS  
Source Code Link: <https://github.com/vamsi2018/ChatServer-nodejs>
- **FaceTweet**  
A chrome extension when installed in the chrome browser, creates a Tweet Button beside every news Feed. On clicking this Tweet Button, one can share any news feed (text, image, video) on Twitter.  
Source Code : <https://github.com/vamsi2018/FaceTweet>