

# **ARPIT KULSHRESTHA**

Technology Architect

## **EDUCATION**

- Bachelor of Technology from SRM University, Chennai, Tamil Nadu, India, 2011 (CGPA: 7.67 )

## **EXPERIENCE SUMMARY**

- +9 years of experience in Java, Javascript, Ruby, Golang, Python, NodeJs.
- Extensively worked on frameworks like Springs, Hibernate, RubyOnRails, AngularJs, ReactJs, ExpressJs, NextJs.
- Proficient in search engine configurations, worked on Solr, Elastic search, IBM Vivisimo, semantic search.
- Experience in developing native mobile apps in iOS platform using swift and Android Application using Java.
- Experience in enterprise application life cycle design, development and deployment.
- Experience in working on Redis, Cassandra, SolrJ, Apache Jena, Apache Tika, Semantic web, Ontologies, Data Mining, Text Analysis and Extraction.
- Experience in Agile Methodology from Sprint planning, Poker Planning, Story estimation Techniques to Burn down/up charts.
- Won 750\$ in a hackathon organized by DevPost in India for an AI Bot using Facebook APIs.
- Created an AI bot using Python and Flask which provides the Indian Railway Information for current status of the running trains and PNR enquiries.
- Experience in configuring LDAP and SSO using Kerberos in Springs.
- Please refer my github account for more details on the projects <http://github.com/Arpit1989>
- Over 10K download of the libraries I have published in ruby gems.
- Co-authoring a paper with Michigan University Professor on use of machine learning in multi label image classification for parks, tourism and recreation.

## **Programming Experience**

OPERATING SYSTEM	PROGRAMMING LANGUAGES	FRAMEWORKS & LIBRARIES
UNIX based, Windows, Android, iOS.	Java, Ruby, Python, Javascript, Swift, Applescript, Golang, Scala, SQL, SPARQL.	ReactJS, NextJs, NodeJs, AngularJs, TensorFlow, GoogleAutoML, Apache Tika, Apache Jena, Tomcat, RubyOnRails, Springs, Hibernate, <a href="http://WebSockets.io">WebSockets.io</a> , Solr, Elastic Search, IBM vivisimo , Facebook APIs, Soundcloud APIs, Triple Stores, Docker, Jenkins, Rspec, Cucumber and many more

### **INFOSYS 2019-2020**

<b>Project Title</b>	Patient Care Central
<b>Period</b>	Apr 2020 to Present
<b>Position</b>	Technology Architect
<b>Responsibilities</b>	<p>Design, architect, plan, review microservices.</p> <p>build, lead, review and design microservice which includes patient profile, store services, prescription services, orchestration service, user interface and work closely with the senior project architects on designing of solutions.</p> <p>requirement gathering and analysis, estimation of the software development effort, design and development of the application, unit testing and defect verification, application deployment.</p>
<b>Project</b>	<p>Patient Care Central is an application built to extract features out of a legacy product used by the store physician at CVS. In its phase 1, Aim is to extract opportunities and patient reach.</p> <p>The project is implemented using Pivotal Cloud Foundry for hosting of the micro services, Jenkins as CI CD.</p>
<b>Hardware</b>	Pivotal Cloud Foundry
<b>Languages</b>	Java, Angular 7
<b>Database</b>	Oracle
<b>Tools &amp; libraries</b>	Spring Boot, Spring, JPA, Hibernate, Hysterix, Informatica.

### **INFOSYS 2019-2020**

<b>Project Title</b>	Warehouse management System at Macy's
<b>Period</b>	March 2019 to Apr 2020
<b>Position</b>	Tech Lead/Team Lead/Full Stack Developer

<b>Responsibilities</b>	<p>Design, architect, plan, review WMS microservices specifically planning space.</p> <p>build, lead, review and design microservice which includes wave, distribution engine, order fulfillment services, handheld service, supply chain UI, handheld UI and work closely with the project architects on designing of solutions.</p> <p>requirement gathering and analysis, estimation of the software development effort, design and development of the application, unit testing and defect verification, application deployment.</p>
<b>Project</b>	<p>Backstage WMS consists of microservices like – Inventory, Work State Management, Order Management, Waving, Distribution Engine, Handheld all of these services were used to run the warehouse which was using Pyramid as WCS (Warehouse Control System) and WES (Warehouse Execution System).</p> <p>The project was implemented using Google Cloud for hosting of the micro services, Google Pub Sub as messaging service, Google Data flow jobs for auditing using BQ, Jenkins as CI CD, Kubernetes for Automated deployment, scaling.</p>
<b>Hardware</b>	Google Cloud Platform
<b>Languages</b>	Java, React
<b>Database</b>	BigQuery, MySql, Redis
<b>Tools &amp; libraries</b>	Spring Boot, Spring, JPA, Hibernate, Sleuth, Prometheus, Spring Contracts, Redisson, Liquibase, Gurobi Engine, Manhattan WMS.

### **FREELANCE DEVELOPER 2018-2019**

<b>Project Title</b>	3xFive, TrueMedicare, Clemson University
<b>Period</b>	Oct 2018 to Present
<b>Position</b>	Full Stack Developer and Architect
<b>Responsibilities</b>	<p>3xFive - Design &amp; Architect the Funnel Management Platform for <a href="https://www.inquiremedia.com">InquireMedia.com</a> &amp; a separate funnel management platform.</p> <p>TrueMedicare - Insurance Company portfolio and its funnel.</p> <p>Clemson University - Helping out on a project on image classification using AutoML, YOLO.</p>

<b>Project</b>	3xfive is platform for publisher and advertiser to create web funnels on the fly using a custom web Editor. These funnels are used of leads Acquisition. Clemson University project - Classification of images collected by parks, recreation and torsion department using Machine learning via AutoML and YOLO.
<b>Hardware</b>	AWS
<b>Languages</b>	Javascript, Ruby.
<b>Database</b>	POSTGRES, ElasticSearch
<b>Tools &amp; libraries</b>	ReactJs, NextJs, NodeJs, RubyOnRails, Bootstrap4, Bandwidth, Docker,

### **MAROPOST 2017-2018**

<b>Project Title</b>	Maropost Marketing Cloud
<b>Period</b>	Oct 2017 to Aug2018
<b>Position</b>	Technical Project Manager
<b>Responsibilities</b>	<p>Review, manage, gather requirement for the Maropost Marketing Cloud Development,</p> <p>Worked on POCs to improve the Maropost Marketing Cloud while also handling the review, architecture of the new features and its impact on the marketing cloud.</p> <p>Responsible to keep the VicePresident and the Board Members up to date on the development of features of Maropost Marketing Cloud.</p> <p>As part of the POC's we introduced GrapeJs into marketing Cloud, ElasticSearch to improve data discoverability.</p> <p>As a team we architected the Social Media Marketing Cloud.</p> <p>MMC integration with Zapier,</p> <p>Created a Magento Plugin for real time syncing of orders</p> <p>Improved the user tracking script to work on all modern day web platforms.</p> <p>Helped team to create and build Acquisition platform for marketers to acquire new leads for clients.</p>
<b>Project</b>	Maropost Marketing Cloud - It was a platform built for Marketers to help them send campaigns to their customers through different channels such as Email, SMS, Push messaging.
<b>Hardware</b>	Google Cloud Platform and Rackspace Unix Machine.
<b>Languages</b>	Ruby, Go, Scala.
<b>Database</b>	MySQL, CASSANDRA, POSTGRES,
<b>Tools &amp; libraries</b>	RubyOnRails, Apache Spark, Apache Kafka, ReactJs, VueJs, WebCrawler, UserTracking through In-house Tool, ElasticSearch, Kibana, FreshDesk, ATOM, Pivotal Tracker.

<b>Project Title</b>	Maropost Marketing Cloud and Sales Cloud
<b>Period</b>	Aug 2017 to Oct 2017
<b>Position</b>	Senior Developer
<b>Responsibilities</b>	<p>Introduced Elastic Search, Kibana for reporting and querying, evaluated features of Salesforce and built similar for Maropost SalesCloud.</p> <p>Worked with the CTO in designing the Salescloud.</p> <p>Responsible for handling and architecting the solutions for Maropost Marketing cloud and its features.</p> <p>My Role started from developing some of the features to then guiding the team of over 40 developers to deliver solution.</p> <p>Worked with the Vice President of Maropost to help them deliver quality features such as Social Media Marketing Platform for Facebook, LinkedIn, Twitter.</p>
<b>Project</b>	<p>Maropost Marketing Cloud - It was a platform built for Marketers to help them send campaigns to their customers through different channels such as Email, SMS, Push messaging, Social Media Marketing. It integrates well with several tools like salesforce, zapier, Magento, Shopify and many others.</p> <p>Maropost SalesCloud - A platform which we were building offered CRM, e-Commerce, Customer Support Ticketing, Referral Management. Vision was to create and ecosystem of these multiple application which can share data among them.</p>
<b>Hardware</b>	Google Cloud Platform and Rackspace Unix Machine.
<b>Languages</b>	Ruby, Golang, Scala.
<b>Database</b>	MySQL, CASSANDRA, POSTGRES,
<b>Tools &amp; libraries</b>	RubyOnRails, Apache Spark, Apache Kafka, ReactJs, VueJs, WebCrawler, UserTracking through In-house Tool,ElasticSearch, Kibana, FreshDesk,ATOM, Pivotal Tracker.

### **TATA CONSULTANCY SERVICES: 2011-2017**

<b>Project Title</b>	Classification Tool
<b>Period</b>	June 2015 to July 2017
<b>Position</b>	Lead Developer & Ontology Expert for Mckinsey & Company.
<b>Responsibilities</b>	Evaluation of Open Source tools for ontology management, requirement gathering and analysis, Estimation of the software development effort, Design and Development of the application, Unit Testing and Defect Verification, Application Deployment.

<b>Project</b>	Ontology Management platform which allows users to suggest, add, remove ontologies within the organization. Springs Application which exposes APIs and Interact with and Angular JS Application. This Application uses NoSQL database using Apache Jena and Interacts with Oracle Database. Primary Purpose of the application is to manage the knowledge of the organization using ontology.
<b>Hardware</b>	Windows 12 with 8 core 2.8 GHz Intel Core i7 processor, 30 GB RAM
<b>Languages</b>	Java
<b>Database</b>	Triple Store and Oracle 12
<b>Tools &amp; libraries</b>	Spring Tool Suite, Solr, PoolParty, Hibernate, Apache tika, RDFs, Linked Data, Spring security, LDAP, SSO, Junit, Mockito, IBM Lotus Notes, Swagger, SKOS.

<b>Project Title</b>	Know
<b>Period</b>	Jan 2014 to June 2015
<b>Position</b>	Java developer and search expert for McKinsey & Company
<b>Responsibilities</b>	requirement gathering and analysis, estimation of the software development effort, design and development of the application, unit testing and defect verification, application deployment.
<b>Project</b>	To provide a search platform for searching all the internal documents using Solr. The data was imported to Solr using DIH and Incremental updates were performed using SolrJ. Java web application provided the interface to query the Solr Data for user to search. The entire Solr Cloud was configured as part of the project which involved using various filters and stemmers.
<b>Hardware</b>	Suse server 4GB RAM
<b>Languages</b>	Java
<b>Database</b>	Oracle
<b>Tools &amp; Library</b>	Solr, SolrJ, JSP, Javascript , JQuery , Html5, Css3

<b>Project Title</b>	Data analysis and semantic search
<b>Period</b>	Dec 2012 to Jan 2014
<b>Position</b>	Java Developer, Linked data expert for McKinsey & Company
<b>Responsibilities</b>	requirement gathering and analysis, estimation of the software development effort, design and development of the application, unit testing and defect verification, application deployment.

<b>Project</b>	The project involved data mining the open source linked databases for improving the current taxonomy of data from industry, functions to geography. The project used geo names, Dbpedia and other open source databases to mine the relevant data. e.g. all the cities of the world with hierarchy.
<b>Hardware</b>	MacBook Pro with 2.6 GHz dual-core Intel Core i3 processor, 4 GB RAM
<b>Languages</b>	Java, XML
<b>Database</b>	Triple Store
<b>Tools &amp; libraries</b>	Apache Jena, Solr, Dbpedia, Linked data, Apache Tika

Please refer my LinkedIn profile for more information on projects related to AngularJs, RubyOnRails, NodeJS - <https://www.linkedin.com/in/speak2arpit/>