

# Prabhu Vignesh Kumar Rajagopal

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## Professional Summary

Experienced DevOps Consultant, dedicated to automation and optimization. Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with the Cloud, as well as DevOps automation development for Linux systems. Brings maturity, enthusiasm, and a drive to learn new technologies along with real world experience.

## Key Skills

Programming Languages	: Ruby, Python.
Frameworks	: Ruby on Rails, Django, Flask, Sinatra.
Scripting	: Bash, Ruby, JavaScript.
Databases	: MySQL, PostGres, MongoDB, SQLite.
Continuous Integration / VCS	: Jenkins, GIT, Bamboo.
Configuration Management Tools	: Ansible, Chef, Terraform, Docker, Vagrant.
Cluster & HA service discovery Tools	: Consul, NoMad, Docker swarm.
Data Analytics & Log management	: ELK stack, Graylog.
Server Monitoring Tools	: Munin, NagiOs
Public Clouds	: AWS, Google Cloud, IBM Bluemix.
Agile Tools	: Jira, TFS.

## Core Qualifications

- Experienced with **Ruby, Ruby on Rails and Python, Django, MySQL, PostgreSQL, MongoDB and SQLite.**
- Experience of scripting languages, including Shell, JavaScript for Linux and Mac platforms
- Expertise in providing infrastructural solution with Configuration Management in **Ansible & Chef** with **Docker** and **Vagrant**.
- Have Experience with **Refactoring Monolithic** application to **MicroServices Application** with **Docker, Consul, Docker swarm and REST API.**

- Have experience with **High Availability, Clustering and Load Balancing** concepts with **Nginx** server, **Consul, NoMad, Docker swarm** and **apache server and utilities**.
- Have good real-time experience with one of the best DevOps practice - CI/CD with **Jenkins and Bamboo** with **GIT, Packer, Terraform and ansible**.
- Having work experience with setting up **SSO with LDAP or AD** and **atlassian suit**.
- Have knowledge on **ELK stack, Graylog, Munin and NagiOs**.
- Certified EMC Academic Associate in Cloud Infrastructure and Services.

## Education Qualification

- Completed M.Tech in Computer Science in the year 2014 from SRM University with 86%
- Completed B.E in Electronics in the year 2011 from Gojan Institute with 79%

## PROFESSIONAL EXPERIENCE

@KPMG.

**Project 1; Role: DevOps Consultant.**

**Multi National Media Company.**

- Transformation and refactoring the **Monolithic** architecture to **MicroServices** with **Docker, Docker swarm, Consul, and Jenkins, Ansible**.
- Created **Deployment pipeline, CICD**, Issue and Bug tracker with integrated ticketing system.
- Ensured all application satisfies '*The twelve-factor app*' and created a complete prototype.

**Project 2; Role: DevOps Consultant.**

**Multi National Oil & Gas Company.**

- Provided solutions for **Agile and DevOps** Implementation with centralized user base with **LDAP** and **MSAD, SSO** integration of various application used by stakeholders
- **Middleware** integration for various agile management application with **TFS, Remedy** and **Jira** with a complete prototype.

**Project 3; Role: DevOps Consultant.**

**Multi National Electronics hardware manufacturing Company.**

- Refactored the flow of entire process to ensure agility with introducing DevOps in it.
- Introduced **CICD** and automated testing which is auto integrated with issue and bug ticketing system with **Jenkins, GIT** and **atlassian suites** like **Jira** and **BitBucket**.

@HCL Technologies.

### Project 1; Role: Developer

HCL Internal Application.

- Developed an application for stockholders to fill their work progress and generate scores and reports according to that.
- With the help of 20 and more tightly associated tables in PostGres. With the help of jQuery tools like morris.js and flat.js, achieved Reports and graphs for dashboard.

### Project 2; Role: DevOps Engineer

HCL Internal Application.

- Provided **support** for **production** and **UAT** servers with **automation tool stack** of **IoT** project with its **transformation of monolithic Architecture to MicroServices Architecture**.
- Complete **transformation** from **private** cloud to **public** cloud with **Ansible** and many **analytics tools**.
- Managing and automating various container based **clusters** with **NoMad, Consul, Terraform, and Docker swarm**.

### Project 3; Role: DevOps Engineer

Multi National planes and trains manufacturing company

- To integrate client's UAT and Production environment, quick containers was needed for Jenkins (DB server, Hadoop clusters).
- So **Docker containers** were used with **Jenkins integration**. Each and every commit of code and particular **time period** my Jenkins server will **build and integrate** the UAT environment and production environment was on demand basis.

### Project 4; Role: DevOps Engineer

Multi National planes and trains manufacturing company

- Client requirement is that their production environment should **meet High Availability and scalability**.
- So I have created **Ansible playbook** with **dynamic inventory** file which dynamically allocates the range of **IPs with respect to No of Docker containers** has been created. Each task was perfectly separated by role for easy change.

## @Personal & Freelancing.

### Project 1: Music Hub: Role: End To End

#### Personal Project

- **Social media** which provide portal to **upload music file** to playlist which can be shared with friends added with in the portal.
- For Uploading music files and **login services**, **Sound Cloud API** is used. Separate user relationship modules are maintained for follow and unfollow the users among the portal.

### Project 2: Build and deployment automation tool (Robin)

#### Personal Project

- Developing Tool called **Robin** in Ruby on Rails which **automates** the application **build, deploy** and **code repositories**.
- **GIT** gem was used to **create project, branch, commit, pull and push** automation through rails.
- And **Build and Deployment** on remote machines was **automated** with **Ansible**, with the help of *Ansible-rails* gem.

## Digital Footprints

GitHub	<a href="http://www.github.com/prabhuvignesh">http://www.github.com/prabhuvignesh</a>
Stack overflow	<a href="http://stackoverflow.com/users/4269160/prabhu-vignesh-rajagopal">http://stackoverflow.com/users/4269160/prabhu-vignesh-rajagopal</a>
LinkedIn	<a href="https://in.linkedin.com/in/prabhu-vignesh-kumar-rajagopal-02694a36">https://in.linkedin.com/in/prabhu-vignesh-kumar-rajagopal-02694a36</a>
Blogging	<a href="http://www.prabhuvigneshrajagopal.wordpress.com">www.prabhuvigneshrajagopal.wordpress.com</a> & <a href="http://www.devopscube.com">www.devopscube.com</a>
Portfolio	<a href="http://www.prabhuvigneshkumar.com/">www.prabhuvigneshkumar.com/</a>