# Vigneshvar Amarampedu Subramanian

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## Consultant Specialist

A cloud enthusiast with 7 years and 7 months of overall experience. Have good exposure on designing and developing cloud solutions. With an addiction to coding, I have made several contributions to the open source world. Effective team player and a quick learner, who continuously seeks opportunities to master new domains and technologies.

## Core Competencies

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| * Technical leadership * Cloud Developer/DevOps * Continuous Integration and Deployment * NoSQL database design and implementation | * Release/Deployment Management * Python Developer * Virtual Networking * Scrum Master |

## Tools and Technologies

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| * Virtualization * Cloud * Big data * C * C++ * Java * Python * Shell Scripting * Virtual Networking | * Xen/Xen Server * KVM * VMware ESXI * VMware Vsphere * VMware Vcloud Director * Openstack * Eucalyptus * CloudStack * Cloud Formation/Heat Templates | * Hadoop * Storm * DRBD * Cassandra * Puppet * MySql * PostgresSql * Linux/Windows * Salt stack * Docker * GIT |

## Educational Qualifications

* B.E in Electronics and Communication(ECE), First Class with 74%, Meenakshi College of Engineering, Anna University (2006-2010)

## Achievements & Certifications

* Completed certification from Salt stack as Salt stack certified Engineer (SSCE2)
  + - https://ssc.saltstack.com/
    - Certification Id : 0x9DC93FB5
* Recognized by Openstack cloud community as one of the contributors and sponsored to participate in design summits happening across the World.
  + - Openstack Summit in Paris, France
    - Openstack Summit in Vancouver BC, Canada
* Key presenter on various workshops on cloud and big data.
* This is my technical blog – http://key-value.blogspot.com
* Recognized and awarded by client for project contributions.

## Organizational and Non Project Responsibilities

* Scrum Master
* Mentor and coach junior team members
* Propose new ideas and provide solutions
* Contribute to the development of the Software Engineering competency
* Conduct training sessions and TechTalks

## Project(s) Worked at First Data

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| Project | Jupiter, First Data Development – Chennai |
| Role | Application Analyst |
| Duration | Nov 2016 to till date |
| Domain | Cloud Automation/Python Developer |
| Technology | Python, Openstack, KVM, VMware, SaltStack, AngularJS, Flask, RabbitMQ, Amazon AWS, Ceph, GlusterFS, Cloud Foundry, Jenkins, Consul, Linux, Cassandra |
| Project Description | This project is developed from scratch to provide end to end cloud automation which helps in provisioning a completely ready server on multi cloud environments for the applications to be hosted. This project involves development of several components which gear together to provide an extremely rapid infrastructure delivery system.  **Roles and Responsibilities**   * Scrum Master * Prepared Initial Design for the application, Part of design discussions and reviewed design drafts * Contributed towards Development (Python), DevOps activities, Database Schema Design and towards Support & maintenance activities. * Contributed towards Establishing Cloud and Cloud automation * Designed and Deployed Continuous Integration and Deployment pipelines for end to end automation * Part of designing underlay networks and overlay networks for openstack cloud. * Deployed Openstack cloud with DVR mode of networking * Prepared SPEC files for RPM packaging * Daily task involves spending some time on code reviews * Requirement gathering and gap analysis * Part of staging and production roll out team * Supported during Change Requests and Incidents |

## Project(s) Worked on at Virtusa

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| Project | Jupiter, First Data Corporation– USA |
| Role | Senior Consultant |
| Duration | April 2015 to Nov 2016 |
| Domain | Cloud Automation/Python Developer |
| Technology | Python, Openstack, KVM, VMware, SaltStack, AngularJS, Flask, RabbitMQ, Ceph, GlusterFS, Jenkins, Consul, Linux, Cassandra |
| Project Description | Same Project mentioned above, but worked as a vendor partner  **Roles and Responsibilities**   * Same responsibilities as mentioned for First Data * Travelled Onsite to Client location (Atlanta, USA) to gather requirements and to meet the stake holders * Handled client communications regarding design and flow. * Provided technical support to various teams who use this application. * To support on design and Proof of concepts for new project proposals as a part of IT leadership team |

## Project(s) Worked on at Reliance Jio

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| Project | Horizontally Scalable Scheduler |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ, Linux |
| Project Description | The solution makes use of the messaging layer for scheduling. The outcome would be to decentralize scheduling of compute resources to individual compute nodes, such that this decision making step is scaled out horizontally by the compute infrastructure, and overall complexity is reduced.  **Roles and Responsibilities:**   * Code contribution towards the upstream blueprint. * Following up meetings on blueprint with the community * Unit and Functional testing for the modules developed. * Managing the team and making technical decisions on the blue print. |

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| Project | Bug fixes/Reviews in upstream |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ,Ceph, Contrail,gerrit, Linux |
| Project Description | There are number of open bugs in openstack. Goal here is to fix/review these problems in the upstream, there by the issue is automatically resolved in the production environment as the system follows continuous integration and deployment.  **Roles and Responsibilities:**   * Regularly scan through open bugs in Openstack * Reviewing available fixes for bugs * Fix bugs and submit to gerrit review system. * Follow up discussions to merge fixes. * To participate on openstack conferences to be part of design decisions |

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| Project | Deploying Ironic / TripleO |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ, Linux |
| Project Description | Ironic is one of the openstack components, which allows openstack to manage baremetal nodes. TripleO (Openstack on openstack) makes use of ironic and various other openstack components to manage and deploy openstack using/on openstack.  **Roles and Responsibilities:**   * Feasibility study on using ironic (stable version) in production. * Manually installing and configuring ironic. * Identifying and fixing bugs. * Back porting patches to stable versions. * Documenting the activity. |

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| Project | Auto scaling |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ, Linux |
| Project Description | Openstack has the capability to auto scale instances. This requires configuring various openstack components and creating appropriate templates to autoscale.  **Roles and Responsibilities:**   * Installing and Configuring Heat * Installing and Configuring ceilometers * Writing heat templates for autoscaling. * Identifying and fixing bugs * Back porting patches to stable versions. * Documenting the activity. |

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| Project | Zabbix / Ceph monitoring |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ,Ceph, Zabbix, Linux |
| Project Description | Ceph is a unified, distributed storage system designed for excellent performance, reliability and scalability. The project involves configuring monitoring system (zabbix) to monitor ceph.  **Roles and Responsibilities:**   * Installing and configuring ceph-zabbix plug-in * Defining metrics and alarms * Documenting the activity. |

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| Project | Continuous Integration and Continuous Deployment (CI/CD) |
| Role | Deputy Manager |
| Duration | April 2014 to March 2015 |
| Domain | Cloud Computing (IaaS) |
| Technology | Openstack, Python, ZeroMQ, Linux, Ceph, Contrail, Jenkins, Puppet, Consul |
| Project Description | Openstack is an opensource project and it is continuously evolved by the community. To have upto-date features and critical bug fixes in the system, there is a need for continuous integration and continuous deployment of the change to the production. The project involves designing the flow and automating the system.  **Roles and Responsibilities:**   * Installing and Configuring Jenkins. * Writing advanced heat templates – using structured config and structured deployment. * Writing Jenkins job. * Install, manage and update key-value pairs in Consul * Working on apt-mirror and continuous snapshots * Creating debian packages from upstream code * Writing basic puppet/hiera scripts involved in automation. |

## Project(s) Worked on at CDAC

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| Project | Open Source Cloud Stack (Meghdoot) |
| Role | Project Engineer |
| Duration | August 2010 to March 2014 |
| Domain | Cloud Computing (IaaS) |
| Technology | Eucalyptus, Xen,C,Java, Perl,PostgreSQL, Linux |
| Project Description | This project includes development and integration of few open source cloud software into a single stack bundled along with a Linux OS ( BOSS ). Meghdoot is a easy to go tool for installing and configuring a cloud software.  **Roles and Responsibilities:**   * Integration of auto scaling module for cloud middleware * Integration of a GUI based standalone cloud configuration tool which makes the core of Meghdoot * Modified virtualization tool (xen) to support vertical scaling * Made some key enhancements on cloud software - Eucalyptus * Deployment and support for Meghdoot in Data Centers * Documentation and unit test case preparation |

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| Project | Cloud configuration tool for Meghdoot |
| Role | Project Engineer |
| Duration | August 2010 to March 2014 |
| Domain | Cloud Computing (IaaS) |
| Technology | Python (Glade), Linux |
| Project Description | This is a GUI based standalone cloud configuration tool which is an add-on to Meghdoot. This tool makes easy the configuration of cloud software (Eucalyptus) in step by step fashion.  **Roles and Responsibilities:**   * Designed and developed the GUI using python-wxglade * Designed and developed the backend logic for the tool * Handled cloud interactions with the tool * Exception handling across the tool and cloud software * Documentation and unit test case preparation |

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| Project | Auto Scaling module for cloud |
| Role | Project Engineer |
| Duration | August 2010 to March 2014 |
| Domain | Cloud Computing (IaaS) |
| Technology | Eucalyptus, Python, HAProxy Linux |
| Project Description | This is a module which gives cloud its major property of scalability. Whenever the load on the virtual machines bearing the applications exceed beyond certain upper and lower threshold, VMs are either created or destroyed depending on the need.  **Roles and Responsibilities:**   * Designed and developed the server component for scalability * Designed and developed the agent component for virtual machines * Integration with Load Balancer * Logic for weight handling for load balancing * Documentation and unit test case preparation |

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| Project | High Availability Module for cloud |
| Role | Project Engineer |
| Duration | August 2010 to March 2014 |
| Domain | Cloud Computing (IaaS) |
| Technology | Eucalyptus, Xen, C, PostgreSQL, Linux |
| Project Description | This is module which provides High availability for virtual machines and the nodes. This module interacts with the underlying virtualization technology and the cloud middleware. The complete monitoring, heart beat and ACTIVE/PASSIVE triggers are maintained in this module.  **Roles and Responsibilities:**   * Enhancements on virtualization tool – XEN, to support certain features in the high availability module. * Modifying and appending high availability code on open source cloud software. * Documentation and unit test case preparation |

## Personal Information:

* Marital Status : Single
* DOB : 03/05/1989
* VISA information : B1 Visa (USA)- Active

: Schengen (Business) - Expired

: Canada (Business) - Expired