

# Bollapragada Naga Ratna Kumar

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*To apply the existing abilities skills upto the fullest satisfaction of the authorities that will allow myself to take full advantage of my passion and experience in software engineering computer science and evolve along with the organization.*

## Professional Qualification

- 2009–2013 **B.Tech - Computer Science**, *Pydah College of Engineering and Technology - Visakhapatnam*, with an overall 70%.
- 2007–2009 **Intermediate**, *MPC*, Mega Junior College - Visakhapatnam, with an overall 69%.
- 2007 **10th/SSC**, *Sai Krupa English Medium School - Sagarnagar, Visakhapatnam*, with an overall 72%.

## Professional Summary

- o Overall 4 years of IT experience in various domain and technology.
- o Having hands on experience and interest in Server administration, Documentation and automation of tasks using Python and Shell Scripting.
- o Configured few servers on RHEL, CentOS for National Center for Radio Astrophysics, Pune.

## System Configuration Skills

- o Installing & Configuring Dell EMC Isilon NZ , with One FS 8 and SyncIQ maintenance.
- o Installation and configuration of Linux operating systems like CentOS, Red Hat, Debian, Ubuntu, Fedora with multiple booting & partitioning.
- o Managing groups and user accounts assigned permissions to users using LDAP.
- o Disk Management and partitioning in Linux Systems.
- o Configuring and implementing Web servers Apache, Tomcat and Glassfish.
- o Configuring and implementing of version control like Subversion, Git and integrating with Bug Tracking System (Trac) and Apache webserver, also Redmine - Project Management Web Application (Ruby on Rails).
- o Automating the repeated processes using Shell Scripts & Python and configuring with Cron jobs for taking automated backups of the system.
- o Working with admin tools like lsblk, top, ping.
- o Installing all the software applications through package manager, repository or source for Linux/Mac.

## Software Skills

Languages	Scripting Languages	Web application Technologies	Database	Webserver	Tools
Java Python C	JavaScript Shell Scripting PHP	Spring Hibernate JSP/Servlets JDBC Tiles HTML CSS AJAX JSON Bootstrap 3	MySQL PostgreSQL	Apache Tomcat Apache2 Glassfish Zope	LDAP Vim/Emacs Trac Git/SVN OpenCV Eclipse Plone LaTex WIKI Virtualbox Libre Office

## Operating Systems

- o Ubuntu 8.04 onwards
- o RHEL 7.0 , Centos 6.x, 7.0
- o Fedora 18 onwards
- o Mac X Mavericks onwards
- o Windows XP onwards

## Open Source Libraries and Softwares

- o OpenLDAP
- o OpenCV
- o FFMPEG
- o Docker
- o FreeNas 10

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## Work Experience

National Centre for Radio Astrophysics – Tata Institute of Fundamental Research, Pune (<http://www.ncra.tifr.res.in>)

September 2015 – till date **Project Engineer**, *National Centre for Radio Astrophysics – Tata Institute of Fundamental Research*, Pune.

National Centre for Radio Astrophysics – Tata Institute of Fundamental Research (NCRA-TIFR), Pune is a leading centre of research under the umbrella of *Department of Atomic Energy, Government of India*, has an active research program in many areas of Astronomy and Astrophysics. NCRA has built and operates the Giant Metrewave Radio Telescope, which is located near Pune, and is the most powerful radio telescope in the world at low radio frequencies.

### Project Description

Development of web applications using Free and OpenSource Software (FOSS) and provide system administration to support GMRT (Giant Meterwave Radio Telescope) observations and analysis. Providing maintenance to NCRA Proposal and Archival Management System.

### Responsibilities

- o Developing and supporting web application for **Giant Metrewave Radio Telescope Online Archive - GOA** and **NCRA Proposal Management System** for intake, short listing and Management of various types of Radio Telescope observations at NCRA-TIFR, GMRT, Pune on a reusable framework using Java, J2EE, Hibernate, Python, Shell Scripting and YUI.
- o Developed with the Sky Map using Google maps API to identify the sources which were identified by the Optical telescope with the available sources in GMRT Online Archive.
- o Working with various image processing libraries for **building pipeline of automated creation of JPEG images** from astronomical FITS images and integrating with GMRT Online Archives System for giving a rough idea to astronomers how the source looks like.
- o Working on further developing, maintaining and enhancing the capabilities of existing **NCRA Proposal System** and **GMRT Online archiving** web application.
- o Working on System configuration, administration, automation of various backend processes using Python, Shell Scripting.
- o Providing maintenance of various implemented projects for all NCRA academic and scientific programs running on Linux servers.

### Freelancing

May 2015–Aug 2015 **Freelancer**, *Visakhapatnam*, Bangalore  
Worked individually for Startup companies Etikkopaka and Anti Bakasur Brigade.

- o Extensively worked on **Java, Android, PHP, MySQL, Python, Shell Scripting, Ajax, JQuery and Bootstrap**.
- o Worked on Raspberry PI v2 Project - For remotely viewing the drive for a based sports car company.
- o Developed web applications in FuelPHP, NodeJS and Android for controlling the Raspberry PI remotely.
- o Designed Developed GUI for PI display using TkInter in Python.
- o Designed and developed eCommerce website in Wordpress using Woo Commerce for a local handicrafts organization.

## IDEA Bubbles Pvt. Ltd.

Jan 2015 **Software Engineer**, *Idea Bubbles*, Bangalore  
–May 2015 Idea Bubbles provides General Health Software Solutions. The company provides end to end solutions for Doctors, Medicos Nurses. Develops and maintains the Health Care Sectors Web and mobile applications.

### Project Description

Worked on further developing and enhancing the capabilities of Idea Bubbles's products on its core, user interface and other aspects and its maintenance.

### Responsibilities

- o Extensively worked on **PHP, Android, Parse NoSQL, Amazon Web Services, MySQL, Python, Shell Scripting, Ajax, JQuery and Bootstrap**.
- o Developed the API in Parse PHP SDK for Android app request handling.
- o Designed developed admin management console for a Android based health care app in Laravel PHP framework.
- o Installation and configuring AWS server and deploying the applications.
- o Configuring the Video calls and SMS automatic texts to the clients/mobile app users, using UMS Technologies package.
- o Installing and configuring the Parse No-SQL online backed.

## Alternative Analysis and Risk Management Corp Ltd.

May 2013 **Software Engineer**, *AARM Corp*, Visakhapatnam  
–December 2014 Alternative Analysis and Risk Management Pvt. Ltd. is the Subsidiary of Alternative Assets and Risk Management LLC , Boston MA. This company provides the reports for Private Equity management and investment solution. This particular branch in INDIA is the backend data management and report generation management resource.

### Project Description

Worked on UNIX scripting and PL/SQL MySQL scripts and Ruby on Rails projects deployment, .

### Responsibilities

- o Extensively worked on **Java, MySQL, Shell Scripting**.
- o Worked on implementing the SQL and PL/SQL for generating client reports.
- o Installing and configuration of Ubuntu servers and deploying the companies Ruby on Rails web application.
- o Deployment of Redmine - a project management web application designed in Ruby on Rails for the company's project management.
- o Database syncing and merging, build tools to check the Quality of dat in database using UNIX Scripting.
- o Build various tools for office utilities (Salary Management Tool).

## Personal Details

Date of Birth 19-August-1992  
Nationality Indian  
Gender Male  
Passport No. K6571369  
Languages English, Hindi, Telugu  
Permanent Flat No. 501, SSS Enclave, Balaji Builders , Pothinamallayya Palem, Visakhapatnam,  
Address Andhra Pradesh - 530041  
Current National Centre For Radio Astrophysics - Tata Institute Of Fundamental Research,  
Address Pune University Campus, Ganeshkhind Pune, Maharashtra - 411007  
Mobile No. +91-9493089151, +91-9494668151  
Hobbies Trekking, Driving, Cooking, Electronic Gadgets, Visiting Places, Sci-Fi Movies.

## Declaration

All the information furnished above is true to the best of my knowledge and belief.

Place : Pune

Bollapragada Naga Ratna Kumar