

Nandaja Varma

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About me

Software engineer with 3+ years of experience, fascination for the intriguing computer science problems and flair for Systems Programming & sSte Reliability. Believes in using the right tool for the right job.

Experience

Quick Algorithm <http://quickalgorithm.com/>

Milan, Italy

SITE-RELIABILITY ENGINEER

April 2018 - Present

- I help develop the scalable infrastructure for the data crunching algorithms that the company offer as a service. My job involves deploying middleware stack like Apache Kafka and Apache Spark to different kind of data streaming to deploying database servers for the end storage. I mostly do containerized deployments at work.

PeARS

Remote

CORE DEVELOPER

July 2016 - Present

- PeARS(<http://pearsearch.org>) is a free and open source, distributed, and lightweight search engine using distributional semantics technique. The project has been funded so far by the University of Cambridge and the Mozilla foundation. Develops critical components of the product.

Red Hat Inc.

Bangalore, India

ASSOCIATE SOFTWARE ENGINEER(PYTHON, C)

January 2015 - June 2016

- Worked as a member of the Gluster filesystem development team. Wrote features and tools both in C and Python to improve the performance and usability of the product.

Bang The Table Pvt. Ltd.

Bangalore, India

RUBY ON RAILS SOFTWARE DEVELOPER

May 2014 - Dec. 2014

- Implemented many enhancement features like survey, pools, etc. to the community engagement platform EngagementHQ for Australian, New Zealand, and Canadian Govt. Worked with the customer support team to fix core product issues by meeting SLAs
- Helped in internationalizing(i18n) the Ruby on Rails application, rewriting the automated deployments of the Ruby on Rails app using Capistrano, Passenger, etc., making the code base better with numerous bug fixes, etc.

Google Summer of Code

Remote

STUDENT DEVELOPER

June 2013 - September 2013

- Successfully implemented a framework in Python to automatically test the fonts rendered by engines as the Google Summer of Code project under the organization Swathanthra Malayalam Computing in the domain Natural Language Processing

Education

Politecnico Di Milano

Milano, Italy

MASTER OF SCIENCE(LAUREA MAGISTRALE) IN COMPUTER SCIENCE AND ENGINEERING

September 2017 - Present

NSS College of Engineering (affiliated to the University of Calicut)

Palakkad, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2010 - April 2014

Technical Skills

- **Operating Systems:** GNU/Linux (Fedora, Debian and its derivatives, Arch Linux, & similar Linus distros)
- **Languages:** Python, Elixir, C, Ruby, C++, Go(Basics), HTML/CSS/Javascript(working knowledge), Java(basics)
- **Development tools:** Git, Bash, Zsh, Quilt, Fontforge, Vim
- **Software Packages:** Kubernetes, Docker, AWS stack, Ansible, OpenStack, MediaWiki, MySQL, Harfbuzz, LaTeX, Gimp, Scrapy, Twisted
- **Frameworks:** Ruby on Rails, Wordpress, Flask, Kafka, Flink, TinyOS, Spark, Hadoop

Projects & Open Source Contributions

TweeFka

Milano, Italy

DEVELOPER

Feb. 2019 - April. 2019

- Developer a twitter like streaming web app, which uses Kafka as a message broker and socket.io to broker and render real time streaming data.

Gdeploy

CORE DEVELOPER

Bangalore, India

Dec. 2015 - March. 2016

- Developed a tool to set-up and deploy GlusterFS using ansible over multiple hosts. Wrote and maintained numerous Ansible modules for the upstream Ansible repository.

Automated Rendering Testing

Remote

MAIN DEVELOPER

Jun. 2013 - Sep. 2013

- As a part of the Google Summer of Code project, wrote a tool to test the rendering of fonts by engine in Python for the organization Swathanthra Malayalam Computing.

Programmatic creation of PDF books from HTML pages for non-latin scripts

Palakkad, India

DEVELOPER

Jan. 2014 - Mar. 2014

- A Python project to implement PDF exports of HTML content like wiki pages for non-latin scripts like all Indic languages, Arabic etc.

Debian Diaspora Packaging Project

Remote

PACKAGE MAINTAINER

Jan. 2013 - Mar. 2013

- Involved in the project to package Diaspora distributed social networking site for Debian and its derivative Linux distributions.

Training & Certification

- 2017: Attended Recurse center(<https://www.recurse.com/>) Spring 1 2017 batch New York, USA
- 2014: Linux Foundation System Administration Training Online
- 2013: Red Hat Certified System Administration course(RHCSA) Bangalore, India

Other Achievements & Awards

- **University of Cambridge sponsorship, 2016:** The PeARS team was invited over to the University of Cambridge to be a part of the workshop series on Open source and NLP and to meet and work with the team face-to-face.
- **Google Women Techmaker India, 2014:** Was one among the 10 winners of Women Techmaker award given away by Google in the year 2014
- **Linux foundation training scholarship, 2013:** Won the Linux Foundation Training Scholarship awarded only to 5 people around the world under the category System Administration WhizKid
- **Red Hat scholarship, 2013:** Won a scholarship from Red Hat, where I was completely sponsored to attend the RHCSA training

Presentations & Talks

- **Git internals and how to get involved in open source projects using it**, University of Cambridge, November 2016
- **Open Source contributions - what and how?**, College of Engineering, Munnar, August 2014
- **Deterministic parallel programming with Haskell**, NSS College of Engineering, Palakkad, India. March 2014
- **Unicode fonts and it's testing**, SMC 12th year event, Thrissur, India. Oct. 2013
- **Introduction to Open Source Contributions**, Devcon - 2013, Model Engineering College, Ernakulam, India. Oct. 2013
- **Swathanthra Malayalam Computing - An introduction**, PMG HSS, PKD, India. Sep. 2013
- **Free and Open Source software - An Introduction**, Women's polytechnic college, Payyannur, India. Sep. 2013
- **Rubygem packaging for Debian**, FOSSMeet NIT Calicut, India. Feb. 2013