Nandaja Varma

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tl;dr

Software engineer with 5 years of experience, fascination for intriguing computer science problems and a flair for Systems programming & Site Reliability. Believes in using the right tool for the right job. Finds home coding in Python and talking about Clojure.

Experience

Quick Algorithm Srl   *Milan, Italy*
TECH LEAD   *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 and managing the infrastructure which includes our own data vizualization platform and several pipelines for.

PeARS   *Remote*
CORE DEVELOPER   *July 2016 - Present*

PeARS 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

Projects & Open Source Contributions

2019	**Tweefka** – Developed a twitter like streaming web app, which uses Kafka as a message broker and socket.io to broker and render real time streaming data.	*Developer*
2016	**Gdeploy** – 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.	*Core Developer*
2013	**Automated Rendering Testing** – 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.	*Core Developer*
2014	**Programmatic creation of PDF books from HTML pages for non-latin scripts** – A Python project to implement PDF exports of HTML content like wiki pages for non-latin scripts like all Indic languages, Arabic etc.	*Developer*

Other Achievements & Awards

2016	**University of Cambridge sponsorship** – 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.
2014	**Google Women Techmaker India** – Was one among the 10 winners of Women Techmaker award given away by Google
2013	**Linux foundation training scholarship** – Won the Linux Foundation Training Scholarship awarded only to 5 people around the world under the category System Administration WhizKid
2013	**Red Hat scholarship** – Won a scholarship from Red Hat, where I was completely sponsored to attend the RHCSA training
2013	**Google Summer of Code** – 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

Trainings & Certifications

2017 **Recurse Center** – Got selected for a 3 month programmers' retreat in which computer science enthusiasts from all around the world participated and exchanged knowdledge — *New York City*

2013 **Linux Foundation System Administration certification** – Completed the Linux Foundation sys admin course — *Remote*

2013 **Red Hat Certified System Administration course(RHCSA)** – Completed RHCSA training covering advanced topics in system administration — *Bangalore, India*

Presentations & Talks

2016 **Git internals and how to get involved in open source projects using it** – University of Cambridge

2014 **Open Source contributions - what and how?** – College of Engineering, Munnar

2014 **Deterministic parallel programming with Haskell** – NSS College of Engineering, Palakkad, India

2013 **Unicode fonts and it's testing** – SMC 12th year event, Thrissur, India

2013 **Introduction to Open Source Contributions** – Devcon, Model Engineering College, India

2013 **Swathanthra Malayalam Computing - An introduction** – PMG HSS, PKD, India

2013 **Free and Open Source software - An Introduction** – Women's polytechnic college, Payyannur

2013 **Rubygem packaging for Debian** – FOSSMeet NIT Calicut, India

Education

Politecnico Di Milano — *Milano, Italy*
MASTER OF SCIENCE(LAUREA MAGISTRALE) IN COMPUTER SCIENCE AND ENGINEERING — *September 2017 - 2020*

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

Programming Languages – Python, Clojure, C, Ruby, Java, Elixir

Operating Systems – GNU/Linux (Fedora, Debian and its derivatives, Arch Linux, & similar Linus distros)

Languages – Python, Clojure, Elixir, C, Ruby, Go(Basics), HTML/CSS/Javascript(working knowledge), Java(basics)

Infrastructure dev tools – Kubernetes, Docker, Terraform, AWS and GCP stacks, Ansible, OpenStack, MediaWiki, MySQL, Harfbuzz, LaTeX, Gimp, Scrapy, Twisted

Data management and processing – Different RDBMS and NoSQL flavours, Elasticsearch, Kafka, Spark, Flink, TinyOS