



# Akshat Singh

With **11.8 years** of IT experience in diverse domains, technologies, and Open Source projects, I am a seasoned **Senior Software Developer**. My expertise ranges from enterprise web development and scalable architectures to microservices and cloud infrastructure. I have served various organizations, from research and start-ups to global enterprises.

## Professional Qualification

- 2008 - 2010 **PGDIT**, *Indian Institute of Information Technology and Management - Kerala*, Thiruvananthapuram with an overall CGPA of, **9.31**.
- 2003 - 2007 **B.Tech**, in *Electronics and Communication Engineering* from *Bundelkhand Institute of Engineering and Technology*, Jhansi, affiliated to U.P. Technical University, .

## Professional Summary

### Primary Skills

- I possess exceptional expertise in developing enterprise applications utilizing **JAVA/J2EE, JSP, Servlets, Struts2, Hibernate, JDBC, Lucene, Docker, Podman, and Kubernetes**.
- Automated tasks using **Python** and **Shell Scripting**.

### Secondary Skills

- Having good hands-on experience in:
  - BigData Technologies.
  - Content Management Systems like **Plone, and Moodle**.
  - Various flavors of **Linux and Unix** and their **System administration**.
- Worked on **UI** part using JavaScript, JQuery, Ajax, Bootstrap, Tiles framework, and Highcharts library.

### Other Involvements

- Organising annual International Debian Conference DebConf'23 in Kochi, Kerala.
- Involved in Debian packaging for **Debian-Astro** dedicated to Astrophysics and other Debian Projects.
- Configured RHEL/CentOS based servers for Science and Technology Park (STPI), Pune, and Film and Television Institute of India (FTII), Pune.
- Organized FOSS workshops and conferences on diverse computing topics at schools and colleges throughout India, to promote Free and Open Source Software (FOSS).

## Software Development Skills

Languages:	Java (Core Java, J2EE, JDBC, JSP, Servlets), Python, Scheme, Go (Beginner)
Frameworks:	Struts2, Hibernate 4.0 (JPA), Hadoop (HDFS, MapReduce)
Scripting:	Shell Scripting (Bash), JavaScript
Databases:	MySQL, MariaDB, BDB/MDB
Tools and Libraries:	Apache Lucene, ZooKeeper, OWASP, OpenLDAP, OpenCV
Container Technologies:	Docker, Podman, Kubernetes, Docker Swarm, Quay, OpenShift, GCP (Basics)



## Other Skills:

Web application Technologies	Databases	Webserver	Tools	Big Data Technologies	Operating Systems
Java/J2EE Struts2 Hibernate JDBC JSP/Servlets HTML, CSS Tiles Framework Bootstrap 3 AJAX XML, JSON YUI/DOJO  <b>Build tools:</b> Apache Ant Make  <b>CMS:</b> Plone, Moodle	MySQL MariaDB BDB/MDB Gadfly ZSQL	Apache Tomcat Nginx Apache2 JBoss Glassfish Zope  <b>Ticketing/            Bug Tracking:</b> Jira Trac Bugzilla	Git/SVN Emacs/Vim Eclipse LaTeX Wiki  Samba Mailman Virtualbox Libre Office	Hadoop 2.x HDFS MapReduce Pig Hive Sqoop Flume HBase Lucene	Linux: RHEL 6.0/7.0, CentOS 5.5 -7.x, Debian 6 onwards, Ubuntu 8.10 -21.10, Fedora 11 onwards  Mac OS X: Lion onwards

## Open Source Libraries Used:

Apache Tika	Tessarect	FFMPEG
OpenLDAP	ExifTool	FFMBC
OpenCV	Aubio	MXFLib
OWASP	vmtouch	ImageMagick
Unoconv	videodumper	uvccapture
udev	libPod	

## GitHub Profile:

<https://github.com/log2akshat>

I have authored and made some valuable scripts available as open source to simplify and automate day-to-day tasks. I am also maintaining them in the *UsefulScripts* repository on GitHub.

## Computing Documentation:

I have created an extensive documentation of the software and technologies I have worked with on *Trac Wiki*. The documentation is organized into various categories and I have also documented interesting articles on technologies, their installations, and system configurations to share my knowledge with others.

Link:

<https://knowledgebase-akshat-pg8-dev.apps.sandbox-m3.1530.p1.openshiftapps.com/ComputingDocs>

To ensure accessibility and ease of use, I have deployed this documentation on **OpenShift4**. The deployment consists of two services, one for the Trac environment and the other running MariaDB to hold the Trac database. Both services are utilizing images stored in the quay.io registry, and each service is running on a pod with a single replica. As part of my continuous learning, I have also completed the OpenShift course DO080 offered by RedHat, as well as gained experience with other container technologies such as Podman, Docker, Kubernetes, and Google Cloud Platform.



## System Configuration Skills

### Linux/Unix

- Linux Kernel recompilation and it's re-configuration.
- Automating repeated processes using Shell Scripts and Python.
- Installation and configuration of:
  - Linux OS like CentOS, Red Hat, Debian, Ubuntu, Fedora and Mac with multi-boot.
  - Software applications through package manager, repository or source for Linux/Mac.
  - Libraries from source.
  - Device drivers for all external and internal devices.
- Configuring and implementing:
  - Cron jobs for taking automated backups of the system.
  - Mail server using Postfix.
  - Network file system protocols.
  - Disk Management and partitioning.
- Worked with admin tools like Webmin, top, nmap, vmstat, netstat, ps, ping, parted.
- Managing groups and user accounts assigned permissions to users using LDAP.
- Hands on expertise in building OpenShift applications.

### Big Data Technologies

- Installing, Configuring and Building *Hadoop* cluster and *HDFS* from scratch.
- Healthcheck monitoring on Hadoop Cluster.
- Ingesting data from *Sqoop* and *Flume*.
- Create and execute *MapReduce* jobs.
- ETL operations using *Pig* and *Hive*.

### Cloud and Container Technologies

- Deploying, maintaining Microservices in Dev environment.
- Configuring and Building *OpenShift* cluster from scratch.
- Deploying applications on OpenShift using its S2I feature.
- Deploying, maintaining, configuring services on OpenShift.
- Building Images from Dockerfile and Containers and pushing/pulling them to/from registries like *quay.io* and *docker.io*.
- Working with OpenShift's *oc* command-line tool.
- Creating *Compute Engine* VM Instances on Google Cloud Platform.
- Creating GCP Bucket and configuring with Compute Engine on Google Cloud Platform.
- Creating Images, Disks and, Snapshots on Google Cloud Platform.
- Familiarity with Google Cloud CLI *gcloud* and *Cloud Shell*.
- Worked on Container orchestration and Docker/Podman containerization using Kubernetes.
- Used Kubernetes to orchestrate the deployment, scaling and management of containers.
- Basic familiarity with Oracle Cloud.

### Web Projects

- Configuring and implementing:
  - Web servers Apache, Tomcat, Glassfish and Zope.
  - Version control systems like Subversion, Git and integrating with *Trac* and *Apache webserver*.
- Building and Managing of web-applications using CMS like Plone/Zope, Moodle, Wiki and integration with LDAP.



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## Work Experience

### [ 1 ] Zimbra Technology India Private Limited, Pune (<https://www.zimbra.com>)

March 2018 **Sr. Software Engineer**, *Zimbra*, Pune.

to March 2022 Zimbra is a powerful collaboration and email platform utilized by enterprises, governments, and service providers in 140+ countries. It offers features such as contacts, calendar, tasks, file sharing, and add-ons such as video conferencing and document creation. Zimbra can be deployed on-premises, in the cloud, or as a hybrid service, and has been trusted by more than 500 BSPs and 2000 channel partners to power hundreds of millions of mailboxes worldwide.

#### Project Description

Contributed to the design, development, and enhancement of the core capabilities of Zimbra, including the creation of a highly available (HA) system from legacy Zimbra. Leveraging Docker, Kubernetes, and other cutting-edge technologies, I created microservices for the HA system and played a crucial role in its ongoing maintenance.

#### Technologies Used

During my tenure at Zimbra, I leveraged a range of cutting-edge technologies to deliver exceptional results. Operating systems such as Ubuntu and CentOS provided a solid foundation, while my programming expertise in Java, J2EE, Python, and Shell Scripting delivered reliable, high-performance code. I also drew on database technologies like MariaDB, Galera Cluster, and ProxySQL, and utilized containers such as Docker and Kubernetes, and web servers like Jetty and Nginx to streamline project workflows. By incorporating tools such as LDAP, Lucene, ZooKeeper, OWASP, SPF, and Apache Tika, I ensured optimal security and efficiency throughout all my projects.

#### Responsibilities

- Successfully designed and developed micro-services for the new Highly Available (HA) system **ZimbraCloud**, improving the **Infrastructure Team**'s efficiency.
- Proficiently created docker images for various services such as Mailbox, MLS, ZooKeeper, ProxySQL, Solr, providing seamless integration across ZimbraCloud.
- Designed and developed the Affinity for *Mailbox Pods* in ZimbraCloud.
- Expertly designed and developed the Affinity for Mailbox Pods in ZimbraCloud, ensuring better performance and reliability.
- Implemented health-check for services like Mailbox, LDAP, ProxySQL, MTA, Galera, Solr, and ZooKeeper, contributing to the smooth functioning of ZimbraCloud.
- Developed separate micro-services for Scheduler and Mailbox lookup Service (MLS), enhancing ZimbraCloud's performance.
- Successfully built a pipeline for automating the image creation and deployment of the ZimbraCloud, reducing manual effort and increasing efficiency.
- Skillfully designed, developed, debugged, and enhanced the capabilities of Zimbra Legacy while working in the **API Team**.
- Successfully implemented metadata searching using Lucene and Apache Tika library for full content Lucene Search, improving search accuracy and efficiency.
- Proficiently implemented the OWASP library in Zimbra, ensuring the system's security and reliability.
- Expertly implemented *Sender Policy Framework* (SPF) and *Sender Re-writing Scheme* (SRS) in Zimbra, improving email deliverability and reducing spam.

#### Few of my contributions in Zimbra

- **Zimbra/zm-mailbox**: <https://github.com/Zimbra/zm-mailbox/pulls?q=author:log2akshat>
- **Zimbra/zm-build**: <https://github.com/Zimbra/zm-build/pulls?q=author:log2akshat>
- **Zimbra/zcs-lib**: <https://github.com/Zimbra/zm-zcs-lib/pulls?q=author:log2akshat>
- **Zimbra/antisamy**: <https://github.com/Zimbra/antisamy/pulls?q=author:log2akshat>
- **Zimbra/packages**: <https://github.com/Zimbra/packages/pulls?q=author:log2akshat>
- **Zimbra/java-html-sanitizer-release-20190610.1**:  
<https://github.com/Zimbra/java-html-sanitizer-release-20190610.1/pulls?q=author:log2akshat>



## [ 2 ] National Centre for Radio Astrophysics – Tata Institute of Fundamental Research, Pune (NCRA-TIFR) (<http://www.ncra.tifr.res.in>)

January 2016 **Visiting Engineer**, NCRA-TIFR, Pune.

to January 2018 NCRA-TIFR in Pune, India, is a premier research center funded by the Department of Atomic Energy, Govt. of India. Its research program covers diverse areas of Astronomy and Astrophysics. It operates the world's most potent low-frequency radio telescope, the Giant Metrewave Radio Telescope, near Pune. Additionally, NCRA-TIFR has extensive expertise in Engineering, Instrumentation, Signal processing, Antenna design, and Computing, housing a high-performance computing facility and complex computing systems.

### Project Description

Designing and Development of web-based software solutions driving continuous improvement to processes, systems, work flow using Free and OpenSource Software (FOSS) and providing system administration to support the computer systems of NCRA-TIFR.

### Technologies Used

- **OS Platform:** Ubuntu, CentOS
- **Languages/Frameworks:** Java, J2EE, Struts2, Hibernate, Python, Shell Scripting
- **Database:** MySQL, BDB/MDB, ZSQL, Gadgetfly
- **UI Technologies:** Ajax, JQuery and Bootstrap
- **Webservers:** Tomcat, Glassfish, Nginx, Zope
- **Other Tools:** Plone, OpenLDAP, Apache Lucene

### Responsibilities

- I upgraded, developed, modularized, and enhanced the web application for **e-Tenders** and **Online Application Management System** for various academic programs at NCRA-TIFR, Pune on a reusable framework. These critical forms are used for selection and deriving analytics of thousands of candidates applying for IUCAA-NCRA Admission Test (INAT), Visiting Students' Research Programme (VSRP), Radio Astronomy Winter School (RAWS), and other academic conferences at NCRA-TIFR. *e.g.,*
  - <https://inat.iucaa.in/INAT2023>
  - <http://vsrp.ncra.tifr.res.in/VSRP2023>
  - <http://raws.ncra.tifr.res.in/RAWS2022>
  - <http://web.ncra.tifr.res.in/PHISCC>
- Contributed to the development, maintenance and enhancement of NCRA Proposal System and GMRT Online Archiving web application (*e.g.,* <http://naps.ncra.tifr.res.in>) with a focus on improving user experience and functionality.
- Utilized image processing libraries to develop an automated pipeline for generating JPEG images from astronomical FITS images. Successfully integrated the pipeline with the GMRT Online Archives System to provide astronomers with a visual representation of the observed source.
- Designed and built a new website for NCRA-TIFR using Plone 5/Zope and integrated it with external database and LDAP authentication to ensure seamless communication with thousands of students and researchers for various research programmes (*e.g.,* <http://www.ncra.tifr.res.in>).
- Developed various web-based forms on the Python-based website for efficient management of website data and dynamic page generation for various announcements, science highlights and employee pages.
- Created a pipeline for the automated generation of web-applications and their deployment, reducing manual efforts and increasing efficiency.
- Demonstrated expertise in system administration, automation, installation, configuration and building of various backend processes using Python and Shell Scripting, ensuring the smooth functioning of NCRA-TIFR's projects.



### [ 3 ] DNA Data Storage Pvt. Ltd. (storageDNA) (<http://www.storageDNA.com>)

October 2012 **Development Engineer**, *storageDNA*, Pune

to December 2015 *storageDNA* is a product based company which provides end to end solutions for archiving, restoring and media asset management of data that is not periodically used. StorageDNA's workflow solution is built on Linear Tape Open (LTO) and Linear Tape File System (LTFS) technologies, and ODA (Optical Disk Arrays) which allows streamlining file-based workflow, work more efficiently and save significant storage costs and this workflow also allows to easily archive, find, restore, and directly access digital assets at incredible speeds.

#### Project Description

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

During my tenure at StorageDNA, I have gained extensive experience working with a wide range of technologies including Java, J2EE, Struts2, Hibernate, Lucene, Hadoop, MapReduce, HDFS, Pig, Hive, XML, MySQL, Python, Shell Scripting, JQuery, and Bootstrap.

#### Responsibilities

- I utilized **Lucene's Taxonomy index facet search** and the **Hadoop** ecosystem to conduct media catalog metadata analytics. First, I built a taxonomy index for archives by iteratively analyzing XML generated during the initial stages of data archiving on LTO tapes. Next, I fed the metadata to **HDFS** cache for various data processing outcomes, leveraging **MapReduce**, **Pig**, and **Hive** to analyze the results before finally feeding them to Lucene for indexing. By utilizing the analytics XML's categories and sub-categories, I was able to effectively drill down queries to obtain required results.  
With the help of analytics XMLs, it is possible to efficiently iterate through the entire catalog structure containing numerous archives and extract the required results. These XMLs are customized to parse the metadata of different archives based on the defined rules, and can be easily configured for processing by placing them in the designated watch folder specified in the configuration file.
- **Automated detection of overheated Train Accel Boxes** - Collaborated with Indian Railways on a project aimed at reducing derailment caused by overheating of Accel boxes in passenger and freight trains. Utilized AI, ML, and Image Processing to detect and identify overheated boxes. Analyzed the data with Pig, Hive, and Lucene in the Hadoop ecosystem to derive valuable insights.
- Successfully built and implemented a Hadoop Cluster to extract valuable insights from structured and unstructured archival data through expert use of Pig and Hive.
- Contributed to implementing incremental **Lucene indexing** for new archival data, enabling efficient search and retrieval of relevant information.
- Successfully developed and implemented a powerful Global Search feature for DNAEvolution product that utilizes advanced Lucene indexing techniques to efficiently search for keywords and logical sentences across vast archives.
- Integrated Flowplayer with HTML5 video API calls, enabling features such as seeking, frame-based manipulation, and rendering, even on low-end devices.
- I possess extensive experience in working with open-source libraries like vmtouch, udev, apache tika, unoconv, mxflib, videodumper, ffmpeg, ffmbc, OpenCV, aubio, tessarect, ExifTool, and others while working with StorageDNA. Utilized these libraries in conjunction with **Python** and **Shell Scripting** to automate various backend processes.



## [ 4 ] National Centre for Radio Astrophysics – Tata Institute of Fundamental Research, Pune (NCRA-TIFR) (<http://www.ncra.tifr.res.in>)

December **Visiting Engineer**, *NCRA-TIFR*, Pune

2009 to August 2012 NCRA-TIFR in Pune, India, is a premier research center funded by the Department of Atomic Energy, Govt. of India. It operates the world's most potent low-frequency radio telescope, the Giant Metrewave Radio Telescope, near Pune. NCRA-TIFR has extensive expertise in Engineering, Instrumentation, Signal processing, Antenna design, and Computing, housing a high-performance computing facility and complex computing systems.

### Project Description

As a software developer at GMRT, I utilized FOSS to create innovative software and web-applications, provided system administration and support for the GMRT software ecosystem, and optimized its software capabilities, enhancing research potential and scientific impact.

### Responsibilities

- Developed Online Application Management System for various academic programmes at NCRA-TIFR, Pune using a reusable framework.
- Built NCRA's new website on top of Plone running on Zope application server, integrated with LDAP authentication for Single Sign-On across all applications, and configured with necessary add-on packages and MySQL database.
- Managed Linux tools and libraries for all NCRA academic and scientific programs on Linux server, including system configuration, administration, and maintenance.
- Maintained NCRA Proposal System and GMRT Online archiving web application.

### Some links:

- <https://naps.ncra.tifr.res.in>
- <https://inat.iucaa.in/INAT2023>
- <http://www.ncra.tifr.res.in/trac>
- <http://mutha.ncra.tifr.res.in:8081/mailman/listinfo>

I designed and developed software systems using Java, JSP, JDBC, Struts2, Hibernate, MySQL, Shell Scripting, Python, Scheme and Linux, and Open Source tools like Plone, Zope, LDAP, Subversion, Trac, Mailman, for NCRA's online application form, and management system and their new website. Additionally, I configured, administered, and maintained Linux tools for all NCRA academic and scientific programs on Linux servers.

## [ 5 ] E-Durables (<http://www.edurables.com>)

June 2007 to June 2008 **Quality Engineer**, *E-Durables*, Dehradun.

I have worked with E-Durables, an OEM division of LG Electronics India Pvt. Ltd. Noida, affiliated with the East India Group and Sister Concern of East India Packaging Pvt. Ltd. Greater Noida.

### Responsibilities

- Functioned as a Quality Engineer in the IQC (Incoming Quality Control) department at Colour TV Line.
- Conducted a Six Sigma project focused on reducing major issues.
- Created daily, weekly, monthly, and SCR (Service Complaint Report) analysis reports for presentation purposes.



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## Master's Thesis

- Title *Next Generation GMRT Support Services*
- Supervisor Dr. Yogesh Wadadekar
- Duration December 2009 to July 2010
- Description The Next Generation GMRT Support Services project aimed to enhance the performance and utilization of the Giant Metrewave Radio Telescope by implementing user-friendly technologies accessible to all staff members, engineers, and scientists at NCRA and GMRT. Open source software tools and the latest technologies were utilized in a Linux environment to minimize data sharing complexity, monitor projects, and organize web contents. The project was divided into five modules, including building a user-friendly interface for NCRA's new website, developing an Online Application Management Tool for academic programs, implementing an Issue Tracking System and version control system for efficient project management, and providing Single Sign On facility using LDAP Server for all NCRA applications.

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## Master's Academic Project

- Title *Library Management System*
- Supervisor Prof. Venkatesh Chopella
- Description I was a vital member of a team that developed an efficient Online Library Management System for IIITM-Kerala, from September 2009 to November 2009. My responsibilities included requirement gathering and analysis, database design, and screen designing for various user and admin modules such as login, registration, password changing and retrieval mechanism, and resource search.
- I was involved in developing the SRS, use-cases, class diagrams, and database design by collecting information from the existing library system. The product was developed using JSP and MySQL server was used to store data. Apache Tomcat was used as a web server, and I was responsible for designing various parts of the user and admin module, including login, registration, password changing and retrieval mechanism, and resource search.

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## B.Tech Academic Projects

- Final year project *PC Based Oscilloscope* Developed a PC-Based Oscilloscope as part of the final year project during my B.Tech program at Bundelkhand Institute of Engineering and Technology Jhansi from August 2005 to May 2006. The project involved creating a hardware interface to condition input waveforms and convert them into digital format for easy interfacing with the PC. To display the waveforms in a user-friendly manner, I utilized my skills in C programming and graphics to design a visually appealing user interface. The successful completion of this project demonstrates my ability to integrate hardware and software components to develop innovative solutions.
- Academic Training Familiarization of Aircraft Accessories Assembly - 6 Week Summer Training at *Hindustan Aeronautics Limited, Accessories Division - Lucknow* in its Assembly and Testing Shop (June - July 2004)
- Academic Training Familiarization of Aircraft Accessories Manufacturing 6 Week Summer Training in *Hindustan Aeronautics Limited, Accessories Division - Lucknow* in its Instrumentation Factory Clean Rooms (June - July 2005).



## Volunteer Activities

### Active involvement in:

- Planned and coordinated Pune FOSS User Group's Science Day event at GMRT annually from 2012 to 2023, aimed at promoting FOSS awareness. <https://pfug.org/scienceday2023.php>
- Volunteering actively for DebConf'23, the annual international Debian conference to be held in Kochi, Kerala.
- Debian packaging for a new Debian blend **Debian-Astro** dedicated for Astronomy and Astrophysics. <https://blends.debian.org/astro/>
- Coordinated and conducted mini-Debian conferences in various colleges nationwide to promote awareness about Debian and other FOSS initiatives.
- Advocated and promoted the use of various FOSS technologies including Debian, Raspbian, Podman, CentOS, Diaspora (a FOSS-based alternative to social media), Moodle, Git, LaTeX, Emacs, and more.
- Organized workshops in educational institutions to familiarize students with the tools and technologies of FOSS.
- Initiated the establishment of a **hacker space** in Pune, taking inspiration from the successful Kovalam E-Kalari (KEK) in Trivandrum, to create a collaborative and practical learning environment for exchanging ideas and knowledge.
- Facilitated computer education and promoted OpenSource software in municipal schools and non-profit organizations aimed at uplifting women and children facing financial constraints.

### An active volunteer:

- Established and currently oversee **Pune FOSS User Group**, a community-driven initiative dedicated to promoting computer literacy and advancing OpenSource software adoption. (<https://pfug.org>)
- of **Free Software Community of India** (FSCI)
- of **Pune Linux User Group** (PLUG).
- during **Science Day** 2011 to 2023 at GMRT, Pune.

### Other Contributions and Interests:

- Created a comprehensive documentation of my experience and expertise by detailing system configurations and technologies that I've worked on. The documentation is available on the Trac Wiki, hosted on OpenShift4, for easy access and sharing.
- Created and released Open Source scripts aimed at streamlining and automating daily tasks. Continuously maintaining and updating them on the **UsefulScripts** repository on GitHub.
- Accomplished the closure of a Six Sigma Project on a few major issues during my tenure at E-Durables.
- Organized *Identification Quiz* as part of Sandhaan-2006, a prestigious national-level technical event held at BIET Jhansi.
- Studied Astronomy during Bachelor's at University of Lucknow, inspiring career despite discontinuation after second year for Engineering.
- Contributed as a volunteer at Indian Science Congress-2002.
- Coordinated and presented an engaging Astronomy Exhibition on COSMOS and Solar System at the University of Lucknow during Indian Science Congress 2002.

## Talks Delivered

- Presented talk on *My expedition of Podman with Debian* during DebConf'22 at Prizren, Kosovo in July 2022. <https://debconf22.debconf.org/talks/62-my-expedition-of-podman-with-debian>
- Conducted workshop and given talk on **Introduction to BigData and Hadoop** at *Zimbra, Pune* in December 2018.
- Organised and delivered talk at Mini DebConf at College of Engineering, Pune in July 2016.
- Delivered talk on Introduction to Raspberry Pi at *FOSS Meet* at **NIT-Calicut** in February 2013.
- Delivered talk on Introduction to Debian in Indian Institute of Information Technology and Management - Kerala, Thiruvananthapuram in February 2012.



## Conferences and Workshops

- Attended DebConf'22 and participated in DebCamp during **International Debian Conference** at Prizren, Kosovo in July 2022.
- Attended RedHat workshop on *Hands-on with OpenShift* in April 2022.
- Taken RedHat **DO080** course on *Containers, Kubernetes and OpenShift Technical Overview* in April 2022.
- Attended **PyData** Conference at New Delhi in August 2019.
- Participated in DebConf'18 **International Debian Conference** at Hsinchu, Taiwan in July-August 2018.
- Attended Big Data's **Pune Data Conference** in April 2017, 2018.
- Attended AWS **Amazon Web Services** conference at Mumbai in May 2017.
- Attended **PyCon 2017** at Pune in February 2017.
- Attended *GNUunify* workshop at SISCR, Pune in February 2014, 2015 and 2016.
- Attended Arduino workshop organised by Do It Yourself Labs at Thoughtworks, Pune in May 2014.
- Attended CDAC's **Garuda Grid Computing** workshop in August 2012.
- Attended Radio Astronomy Winter School at NCRA-TIFR, Pune in December 2009.
- Attended International workshop on *Machine Learning Methods in Astronomy* organized by IUCAA at MACFAST College Thiruvalla (Kerala) in Jan.'09.
- Attended *National Conference on Computational Science and Engineering – 2009* organized by Rajagiri School of Computer Science, Cochin (Kerala) in Feb.'09.
- Selection in Telescope making workshop at IUCAA-Pune in 2003.

## Personal Details

Date of Birth 02-August-1984

Nationality Indian

Gender Male

Passport No. H5528018

Languages Fluent: English and Hindi, Beginner: Marathi

Address Baner - Pashan Link Road, Pashan, Pune - 411021 (Maharashtra)

Hobbies Astronomy, Photography, Trekking, Stargazing, Swimming, Driving, Electronic Gadgets, Exploring Natural and Historical Places, Watching Sci-Fi Movies.

## Declaration

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

Place : Pune

Akshat Singh

