

CURRICULUM VITAE

BALVINDER SINGH

DevOps Engineer
20/01/1991

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SUMMARY

- ❑ Having 6+ years of Experience in Linux System Administration and DevOps Engineer.
- ❑ Having 1 Year of Teaching Experience in GECB, Bikaner as Teaching Assistantship.
- ❑ Remote Support in Linux Server Administration.
- ❑ Ability to quickly learn and understand from self-study or analysis.
- ❑ Team player - listens, share, cooperate and learn together as a team.
- ❑ Designed an Image Steganography Technique for Information Security.
- ❑ Designed own blog website www.linuxtweaks.in including my whole work.
- ❑ Worked on MATLAB Simulator.
- ❑ Qualified Gate 2012.

EDUCATION

2012-14	Govt. Engineering College Bikaner, Bikaner, Rajasthan	68%	M.Tech.(SE)
2008-12	Yagyavalkya Institute of Technology, Jaipur, Rajasthan	70.43%	B.Tech (CSE)
2008	Khalsa Se. Sec. School, Sadul Shahar, Rajasthan	61.38%	Class XII
2006	G. N. Public Sec. School, Sadul Shahar, Rajasthan	71.17%	Class X

RESEARCH PAPER & PUBLICATION

- ❑ A paper titled “A Steganography Algorithm for Hiding Secret Message inside Image using Random Key” is **Presented** and **Published** in “International Journal of Engineering Research & Technology (IJERT), Vol. 3 Issue 12, December - 2014” (<http://bit.ly/2X6F10M>)
- ❑ A paper titled “A Hybrid Approach for Characters Recognition in License plate Recognition System” is **Presented** and **Published** in **Elsevier** in “Fourth International Conference on Advances in Computer Science - AETACS2013”. (<http://bit.ly/2HD2rWb>)
- ❑ A paper titled “PDAC (Parallel Encryption with Digit Arithmetic of Cover Text) Based Text Steganography” is **Presented** and **Published** in **Elsevier** in “Fourth International Conference on Advances in Computer Science-AETACS2013”. (<http://bit.ly/3cvoj3q>)
- ❑ A paper titled “An Efficient Text Steganography using Digit Arithmetic” is **Presented** and **Published** in **Elsevier** in “Fourth International Conference on Advances in Computer Science-AETACS2013. (<http://bit.ly/2QnBvwX>)

DISSERTATION

- ❑ Designed a Technique named “**A Steganography Algorithm for Hiding Secret Message inside Image using Random Key**” for Final Thesis Report.

WORKSHOPS

- ❑ Participated in Sort Term Course on “**Future Trends and new Inventions in Computer Science and Engineering**” Organized by Department of Computer Science and Engineering, **Govt. Engineering College, Bikaner** during 23 September to 27 September 2103.
- ❑ Participated in Sort Term Course on “**Pattern Recognition Techniques**” Organized by Department of Computer Science, **MNIT Jaipur** during 13 May to 17 May 2013.

SEMINAR

- ❑ Presented a Seminar on “Hiding Secret Message in Digital Media using Steganography for Enhancing Data Security” during M.Tech.
- ❑ Presented a Seminar on “Nokia Morph (Nanotechnology)” during B.Tech.

PROFESSIONAL TRAINING

- ❑ 45 days Project Training in ASP.Net, ADO.Net & C# during 13th june to 30th july 2011 at Orbit Technologies, Jaipur

TECHNICAL PROFICIENCY & EXPERTISE

- ❑ Red Hat Linux, Centos, Ubuntu, Fedora, OpenSuse etc.
- ❑ DevOps tasks for Automation Build & Deployment
- ❑ Mysql, Percona Mysql , Postgres Database
- ❑ Apache,Nginx Web Server, PHP Configuration, Virtual Hosting
- ❑ Bash Scripting for automation and Monitoring
- ❑ Operation like Performance Tuning, ,Security, Monitoring Tools
- ❑ AWS , Google Cloud , Microsoft Azure and others Hosting platform

PROFESSIONAL EXPERIENCE

Freelancer

- ★ **Remote System & DevOps Engineer : Jun, 2016 - Present**

Xicom Technologies Ltd, New Delhi (www.xicom.biz)

- ★ **Sr. System Administrator : Oct, 2015 – June 2016**

- ❑ Handling, Managing, Maintaining local and client’s server both Linux, Windows
- ❑ 50+ physical and virtual servers in a mixed Linux and Windows environment.

- Worked on IIS, FileZilla server, SQL server installation etc.
- Management of Amazon Web Services architecture like EC2, Route53, S3 etc.
- Network Services: DNS/Bind, Samba, FTP, SSH, DHCP, HTTP etc.
- Configuration and management of Subversion and Git.
- Configuration and management of DHCP, DNS server, Backup server
- Accountable for rendering support for the Linux Systems & maintaining uptime for all the systems as per the Customer Defined SLA's.
- Planning and managing hardware infrastructure of servers, desktops, and networking equipment based on growth plans.
- Analyze, log, track complex software and hardware matters of significance pertaining to networking connectivity issues, printer, server, and application to meet business needs.
- Ensuring fault free System Performance (Process, Load & Disk Space).
- Scripting and automation & auto deployment.
- Responsible for upgrading system, capacity planning and system management.
- Designing and building servers as per project requirement.
- Responsible for providing disaster recovery planning and execution for the Linux environment.
- Documentation management if required by client.
- Setup Vimbadmin mail server and Samba share for internal IT documentation.
- Build and maintain the Linux based monitoring infrastructure (NAGIOS).
- Health checkup of all the production servers, monitoring what's up alerts on a routine basis.
- Backup management via self-written Bash scripts & via Penel provided Backup tools.
- Installation, up-gradation and configuration of control panels like cPanel, Website Panel etc.
- Migrated servers including cPanel/Plesk/Website Panel from outsourced hosting provider to internal servers.
- Installation and configuration of Windows/Linux servers to host websites, Databases, Emails etc.
- Working with Malware removal, server login restriction, Web security, Security auditing.
- AWS EC2 server setup, S3 Storage Step, RDB, Cloudfront, CDN installation and configuration (Cloudflare, Max-CDN etc).
- MySQL/MariaDB server (MyISAM/InnoDB :- optimization according to server's configuration)
- Mail Server building for sending and receiving mails (Exim, Postfix, Sendmail) setup mail client Roundcube, Squirrelmail, Horde. Troubleshoot mail issues, configure mail for delivery in inbox.
- Virtualization technology :- VMware VSphere Esxi

EmizenTech Pvt. Ltd, Jaipur (www.emizentech.com)

★ Linux Server Administrator : Feb, 2014 – Sep, 2015

- Server administration of 50+ servers (Red Hat, Centos, Ubuntu).
- Installation of different types of linux Distro.
- Worked with WHM/Cpanel, Parallel Plesk, Nexcess, Godaddy etc.
- Worked with Rackspace, Linode, Amazon EC2, Godaddy etc.
- Configuring Apache/Nginx web servers, SSLs, Php.
- Package installation Using “Yum” ,”rpms” and “Source”.

- Worked with Git,Svn also on Bitbucket, Assembla version control system.
- Varnish,Redis,Memcache,Pagespeed installation and configuration.
- Server Optimization with different application.
- Performance Tuning for Wordpress,Magento based websites.
- Created bash script for Automated backup of servers and monitoring servers.
- Server Security with iptables,firewall,Clamscan,CSF,Fail2ban.
- Worked with Sendmail,iRedMail,Exim,Postfix mail server.
- Worked on VMware vSphere Hypervisor Virtualization.
- Worked on Nagios Monitoring & Cacti Monitoring.
- Multiple PHP version Controlling with phpbrew.
- Git Server Setup with GitLab.
- Github, Gitlab, Bitbucket auto deployment.

EXTRA CURRICULAR ACTIVITES

- Qualified Gate 2012 and Achieved 84.46%ile in Computer Science.
- Participating at District level game of “**Badminton**” in 10th Std.
- Participated at School level in “**Quiz Competition**” in 10th Std.
- Designed own blog website www.linuxtweaks.in including my whole work.

OTHER INFORMATION

- I am conversant with English, Hindi and Punjabi.
- My Hobbies includes
 - Believe in Teamwork
 - Cooking
 - Net Surfing
 - Accounting
 - Sharing knowledge with friends

PERMANENT ADDRESS

Balvinder Singh s/o Satnam Singh
Near Bhagat Singh Chowk, Ward No. 13, Sadul Shahar, Sri Ganganagar, Rajasthan, India.
Pin Code - 335062

DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

BALVINDER SINGH