BASANTA SHARMA GYAWALI

LINUX SYSTEM ADMINISTRATOR, SOFTWARE DEVELOPER

Chitwan 44207 ◆ +977 9869240436 ◆ gyawalibasanta0@gmail.com ◆ **WWW:** bsg.com.np

ABOUT

Hi, I'm Basanta Sharma Gyawali, a Network/System Administrator from Chitwan, Nepal. With a BSc. Degree in Computer Science and Information Technology. I'm specialized in Configuration, management, troubleshooting, administrating networks and systems, also fond of making network based software solutions. Adaptable and analytical IT professional with a established expertise in network configuration and troubleshooting. Aims to leverage a solid understanding of networking protocols, hardware, and system administration to contribute to a forward-thinking team. A quick learner, dedicated to mastering new technologies and applying strong problem-solving skills to enhance network reliability and drive efficiency through innovative solutions.

EXPERIENCE

Assistant System Administrator, 01/2023 - Current

Astavision Infosys – Bharatpur-1, Chitwan

- **Hypervisor and Server Management** - Installation and configuration of Hypervisor like Proxmox, Creation and management of physical or virtual server instance
- **ACS Server Configuration** - Installation and configuration of Auto Configuration Server to configure Customer Premises equipment, Used GenieACS for remote configuration of Customer Premises Equipment
- **Authentication Server** - Installation and configuration of free radius server for user authentication, authorization and accounting
- **DNS and Other important servers** - Installation and Configuration of Bind for DNS resolving and caching, CWP as a Web Hosting Server, Postfix and Dovecot for Mail server, MySQL and MariaDB as a Database server
- **Network Monitoring Server and Traffic Graphing** - Installation and configuration of various network monitoring tools like Smokeping, Cacti, MRTG, LibreNMS and many more, Generating network traffic of various network devices based on IP address or Interface port using MRTG and monitoring the ingress and Egress traffic
- **Network Device Configuration** - Configuration of network devices like switches and routers

Assistant Software Engineer, 01/2022 - Current

Astavision Infosys – Bharatpur-1, Chitwan

- **Full-Stack Application Development -** Architected and built accessible, end-to-end web applications using PHP (Laravel) and JavaScript (Vue.js), such as a comprehensive Accounting Software platform focused on efficient user experiences.
- **Network-Centric Software Engineering -** Engineered specialized software, including the flagship CPE Management Portal, to directly manage and automate network hardware operations, significantly reducing on-site support needs.
- **API Development and System Integration -** Developed RESTful APIs to successfully integrate applications with external network services like GenieACS and Radius servers, creating robust and cohesive multi-part systems.
- **Database Design and Administration -** Designed, administered, and optimized scalable MySQL/MariaDB database schemas and complex SQL queries to ensure high application performance and data integrity.
- **Version Control and Software Lifecycle Management -** Managed the complete Software Development Lifecycle (SDLC) from concept to deployment and maintenance, utilizing Git and GitHub for version control and collaborative development.

Internship, 01/2022 - 01/2022

Astavision Infosys – Bharatpur-1, Chitwan

- **Network Device Configuration** - Network devices like Routers and switch configuration, Basics Wired/Wireless Local Area Network(LAN / WLAN) configuration
- **Network Management** - Monitoring Network traffic and device status
- **Server Handling** - Managed various serves on various virtual machines
- **Software Development** - Designed and developed web app using PHP(Laravel), Java-script (Vue), Networking Based Software Solution developed,
- **Web Development using Wordpress** - Designed and Build websites for clients,
- **Database Administration** - MySQL, MariaDB

Skills and Tools

- **Software Engineering:** Agile, SQL, OOPS (Object-oriented Programming), REST API, Database, GIT and Github, Code Testing, Code Debugging, Software Deployment and Maintenance

- **Software Programming:** PHP (Laravel), Java-script (Vue), HTML, CSS, C#, Python, MY SQL, MariaDB,

- **Core Network Configuration:** Mikrotik Router, Switching Technologies, LAN and WAN Administration, Wireless Networking, VPN Configuration, Remote Work Support

- **Network Monitoring & Performance:** LibreNMS, Smokeping, Cacti, MRTG (Traffic Grapher), SNMP Monitoring, Network Performance Monitoring, Performance Analysis, Network Device Monitoring

- **Network Security & Troubleshooting:** Firewall Management, General Network Security, Network Troubleshooting, Technical Troubleshooting

- **IP & DNS:** IP Addressing and Subnetting, DNS Implementation (Bind)

- **System Administration and Management:** Linux Server(Debian and CentOS), Radius Server for User Authentication, Hardware Installation, Software Upgrades

- **Server Virtualization & Data Center:** Proxmox Hypervisor, Data Center Operations, Datacenter Network Implementations

---

EDUCATION

Bachelors in science: Computer Science and Information Technology, 01/2019 - 01/2024
Birendra Multiple Campus - Bharatpur-10, Chitwan

WEBSITES, PORTFOLIOS, PROJECTS

CPE Management Software | PHP-Laravel, MySQL, GenieACS, Radius

- A comprehensive, web-based portal designed to remotely configure and manage Customer Premises Equipment (CPE) such as home routers.
- The system leverages a Laravel backend to interface with a GenieACS (Auto Configuration Server) for device management and a Radius server for secure user authentication and accounting.
- This solution enables administrators to efficiently troubleshoot and update user devices from a centralized dashboard, significantly reducing the need for on-site support.
- **URL:** portal.nimblenetwork.com.np

Accounting Software (In Progress) | PHP-Laravel, MySQL, Vue.js

- Currently developing a modern, web-based accounting application intended as a more accessible and user-friendly alternative to traditional desktop software like Tally.
- A key feature is its keyboard-centric design, allowing users to navigate and control the entire web interface without a mouse, boosting efficiency for power users.
- The project uses a robust Laravel backend for data processing and a dynamic Vue.js front-end for a responsive user experience.
- **URL:** *Under Development*

Client Wordpress Websites | WordPress, HTML, CSS

- Designed, developed, and deployed multiple custom WordPress websites tailored to the specific requirements of various clients.
- Responsibilities included theme customization, plugin integration, and ensuring responsive design for a seamless experience across all devices.
- **URLs:** nimblenetwork.com.np, chital.echitwan.com(currently Offline)

Personal Portfolio Website | HTML, CSS, JavaScript

- Built a personal portfolio from the ground up using fundamental web technologies to showcase my

skills and projects.

- This project demonstrates solid front-end development skills and an understanding of responsive web design.
- **URL:** bsg.com.np

Some Fun Game Projects:

- **RUN:** C#, Unity Engine, Blender

A 3D endless runner game with great game control mechanics using C# for scripting within the Unity game engine, with custom 3D models created in Blender. This project showcases skills in game logic, physics implementation, and asset integration and have successfully deployed the game for both Android and WebGL, making it accessible on multiple platforms.

URL: bsg.com.np/runrun

- **TAP TAP:** C#, Unity Engine, Blender

A 3D endless ball rolling along zigzag path. User controls the ball moving direction with single touch or a mouse click event.

URL: bsg.com.np/taptap

- **LUDO:** HTML, CSS, Java-script

A playable 2D LUDO game using only HTLM, CSS and Java-script to test the logic building and understanding with these technologies.

URL: bsg.com.np/ludo

- **BAGHCHAL:** HTML, CSS, Java-script

A popular Nepali traditional 2 player community game. It's a 2D strategic game where one player plays role of Bagh(Tiger) and another as a Bakhra(Goat). Goat wins if all tiger's movement path is blocked or tiger wins if tiger eats at least 6 goats.

URL: bsg.com.np/baghchal