

Samundra Raj Bajracharya

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Profile

I am an experienced IT professional with 6+ years in IT infrastructure, system administration, and DevOps. With a strong background in virtualization, cloud automation, and enterprise security, I specialize in designing, optimizing, and securing infrastructure for high availability and performance. My expertise includes managing large-scale virtualized environments, automating workflows using Terraform, Ansible, and CI/CD pipelines, and implementing security measures such as SIEM and email security solutions. Passionate about solving complex technical challenges, I thrive in fast-paced environments where innovation and efficiency drive operational excellence.

Education

Masters in Information Technology, 2023 – present | Nepal
Patan Multiple Campus

Bachelors in Science Computer Science and Information Technology, 2014 – 2019
Academia International College

HSEB(+2), United Academy 2011 – 2013

SLC, Omega International School 2010

Professional Experience

Datahub Nepal, Sr. IT Officer Mar 2025 – present
System Administration and Research & Development

Accessworld Tech Pvt. Ltd., Nov 2023 – Feb 2025
Team Lead - Technical Support and R&D

Technical Support

- Manage support pipeline and escalation to maintain SLA
- Supervise and train support staff
- Technical support for customers and internal systems

Research and Development

- Responsible for developing new tools and implementation required for organization or customers
- Integration between system and development teams
- Primarily worked on Self-managed Virtualization Platform similar to how Linode or Digital Ocean provide services integrated with VMware, Proxmox, XCP-ng

Accessworld Tech Pvt. Ltd.,
System and Security Administrator

Aug 2021 – Nov 2023

Cloud

- Provisioning, configuring and troubleshooting our cloud infrastructure
- Manage virtualization technology
- Manage backups and HA and related infrastructure

System Administration

- Manage and maintain all internal systems (DNS, Email, Ticketing, Monitoring, Web Hosting, VPS)
- Provide support to customers regarding Linux or Windows Server Administration

Enterprise Secure Email

- Maintain our secure email infrastructure
- Manage email servers and secure mail gateways
- Manage multiple customers and internal email services hosted across multiple platforms - Zimbra, cPanel, Axigen, etc

SIEM

- Monitoring, analyzing and reporting using SIEM tools for financial organizations and internal infrastructure
- Maintain SIEM infrastructure- McAfee ESM

Infrastructure

- Maintain datacenter infrastructure
- Provision, configure and troubleshoot servers, storage servers and necessary systems - HP, Dell, Cisco, IBM

Domain, DNS and SSL

- Manage DNS servers, records and all related systems
- All process related to issuing and installing SSL certificates
- Domain registration and managing required records for hosting, mail transfer and additional verification

Accessworld Tech Pvt. Ltd., NOC Support Engineer

Jan 2019 – Aug 2021

- L1 Support
- Datacenter monitoring and reporting
- Datacenter Operations
- Network and System troubleshooting

Mentor Institute of Technologies,
Instructor and Developer

Feb 2018 – Jul 2022

Instructor

- Graphics Designing- Branding and Brand development
- Web technologies
- PHP and Laravel

Developer

- Undertook multiple website development projects
- Created our own Online Learning Portal - eKuthi with self hosted Video sharing

ABGroup Pvt. Ltd.,

Jun 2017 – Nov 2017

Web Developer and Graphics Designer

- Graphics designing and branding (Logos and other assets)
- Create mockups of websites
- Front end web development

Chromatic Games (Formerly Trendy Entertainment), Quality Assurance (Remote)

Feb 2016 – Sep 2018

- Testing daily development builds
- Bug reporting and creating reports

Skills

Programming Languages — PHP | Python | Bash | Powershell**Virtualization** — VMware | Proxmox | XCP-ng | Citrix Xen**System Administration** — Linux (Ubuntu, Centos, RHEL, Debian) | Windows Server | Email Servers (Axigen, Zimbra, Mailcow) | DNS Servers (bind, unbound, pi-hole, ADDS) | Monitoring Systems (cacti, nagios, LibreNMS, TiG, etc) | Web Hosting (ISPconfig, cPanel, HestiaCP, LAMP Stack, nodejs, MERN, nginx, IIS) | Ticketing Systems (Request Tracker, OSTicket) | Gitlab (Self Hosted Gitlab instances) | In-house systems hosted across multiple platforms | Communication platforms (Mattermost, Matrix) | Database Servers (mysql, mssql)**DevOps** — Docker and Containerization | Kubernetes | Gitlab CI/CD | Jenkins | Ansible | IaC (Terraform and OpenTofu) | Automating processes using Python and Bash**Other Skills** — Adobe Photoshop | Adobe Illustrator | Figma | InVision | Opensense as WAF and Load Balancer | Programming Languages: Angular, React, Ionic, C#, C

Activities and Certifications

Network Engineer,

2013

Aptech Computer Education Pvt. Ltd.

Completed Network Engineer course from Aptech Computer Education Pvt. Ltd. with Windows Server 2003.

Microsoft Student Partner,

2014 – 2015

Microsoft Innovation Center

Selected as a Microsoft student partner for the year from my college. Spent a year at Microsoft Innovation Center, Nepal learning about new technologies and many other skills.

Microsoft Certified Professional, MCP-ITP

2015

Certified as a Microsoft Technology Associate for Windows Operating System Fundamentals.

NPNOG-5, <i>Network Monitoring, Management and Automation</i>	2019
Attended a 5-day workshop on Network Monitoring, Management and Automation. Topics included different Network Monitoring tools as well as use of Automation of technologies for large scale deployments.	
cPanel Professional Certification	2019
Completed CPSP and CPP certification for cPanel/WHM	
McAfee Certified Product Specialist, SIEM/ ESM	2021
Completed McAfee ESM Essentials Exam, Accreditation Exam and Certified Product Specialist for Security Information and Event Management (SIEM)	
Oracle Certified Foundations Associate, <i>OCI Foundations Associate</i>	2022
SANOG-38/NPNOG-6, Network Automation	2022
Attended a 4-day workshop on Network Automation. Topics included docker container, ansible with Gitlab CI-CD for automatic response to network events and provisioning devices automatically.	
VMXP- Xaas Professional, Veeam Software	2022
Fortinet Network Security Expert Level 1: Certified Associate, Fortinet	2023
Fortinet Network Security Expert Level 2: Certified Associate, Fortinet	2023
Fortinet Network Security Expert Level 3: Certified Associate, Fortinet	2023
Cloud Tech Fundamentals, Acronis	2023
Certified Associate on Stellar Cyber for SOC Analysts, Stellar Cyber	2023
Axigen Certified Engineer, Axigen Messaging	2023

Projects

Aama, Final Year Project	2018
Mobile/ Web Application built in Angular and Ionic framework for health tracking during pregnancy.	
PAC Controller	2021
Created a system to control PAC(Precision Air Conditioning) in Datacenter environment based on current temperature. API built in Laravel and relays controlled using an Arduino with temperature and humidity sensors.	

Network Traffic Analyzer

2021

Application built using nfdump and laravel framework to analyze netflow traffic to determine daily network bandwidth usage per IP.

Mail Flow Tracker

2023

Built a system using bash and python to analyze mail server logs to determine if any email account has been compromised and tracking mail count per sender to maintain good sender reputation. Works with zimbra and axigen mail services.

VPS Automation

2023

Python-based API (FastAPI, Terraform, Ansible) for automated VPS provisioning compatible with VMware and Proxmox

Homelab

2023 – present

Running a homelab setup with following features all running as docker containers:

- Accessible from anywhere with Zero Trust using Tailscale
- Some services exposed to internet using Cloudflare Tunnel (Zero Trust)
- Fileserver using Nextcloud
- Gameserver for multiple games using Pufferpanel and playit.gg
- Self hosted Deepseek R1 using Ollama and Open-webui
- piHole as a DNS sink and ad blocker in home network
- Jellyfin media server, etc