

## Ranjit Pokharel

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### Main Objectives

Enthusiastic individual with a solid grasp of Python programming, showcased through completion of all problem sets in CS50 Introduction to Programming with Python. Beginner-level Linux skills and foundational knowledge in Linux servers, automating system processes, and developing efficient tools for system monitoring, backup, and recovery. Adept in utilizing Btrfs, shell scripting, and Python to enhance server performance and automate complex workflows. Passionate about leveraging open-source tools and technologies to build scalable, reliable, and secure environments.

### Skills

- Linux Administration: Btrfs, LVM, RAID, systemd, bash scripting, network configuration, user management.
- Python Development: Automation scripts, API integration, web scraping, data processing, multithreading, Python, Django, Flask, FastAPI.
- JavaScript, HTML, CSS, Bootstrap, Tailwind
- Configuration Management: Ansible, Puppet, Chef.
- Virtualization & Containers: Docker, KVM, VirtualBox.
- Cloud Platforms: AWS, Azure, DigitalOcean.
- Version Control: Git, GitLab, GitHub.
- Monitoring & Backup Tools: Nagios, Prometheus, Timeshift, custom snapshot tools.
- Database Management: MySQL, PostgreSQL, SQLite.
- Security & Hardening: SSL, SSH, iptables, firewalld, SELinux, TPM configuration.

### Project

#### BTRFS Manager

- **Btrfs Manager** is a Python tool for simplifying the management of Btrfs file systems, including snapshots, subvolumes, and partitions.

## **Education**

### **Harvard's CS50**

- CS50's Introduction to Programming with Python

### **UDEMY**

- Complete Linux Training Course to Get Your Dream IT Job 2024

### **Florence College of Physiotherapy**

- Bachelor of Physiotherapy, 2015-2020 Affiliated with Rajiv Gandhi University of Health and Science

### **V.S Niketan Higher Secondary School**

- Pre-University Education (HSEB Grade +2), 2015 School Leaving Certificate Examination, 2013