



CONTACT

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Professional Skills

1. Linux System

- Centos and Ubuntu kickstart and tuning
- Linux router development in 2 interface system with iptable port forwarding.
- Private DNS server development with DNS sinkholing using Bind9.
- Fileserver system with SMB and owncloud
- Intrusion Detection using fail2ban
- Advance bash scripting, python(both scripting and web programming)

2. DevOps

- Distributed deployment using Kubernetes and Docker swarm
- Continous Integration: Jenkins & CircleCI
- Configuration management: Ansible
- AWS
- Virtualisation: Vagrant

3. Log Management:

- Centralized log management: Elasticsearch, Logstash, Kibana (ELK)

BIKRAM DHOJU

NETWORK AND SYSTEM ENGINEER/DEVOPS

SYNOPSIS

A team player with strong interpersonal skills and possess a flexible and detail oriented attitude. An efficient key player in challenging & creative environments with excellent capacity to adapt to new technologies and skills. I have a clear, logical mind with a practical approach to problem solving and a drive to see things through to completion.

WORK EXPERIENCE

SR. NETWORK AND SYSTEM ENGINEER / TECH LEAD

Open Learning Exchange, Nepal | June 2015 - Present

- Building IT solutions, translate technical requirements, assist with all stages of test data and perform script maintenance and updates of office servers.
- Lead strategic as well as tactical efforts to architect, implement, monitor, and improve 24/7 network operations of servers.
- Research to integrate new technology to education on the basis of predefined constraints.
- Develop customized Linux routers and file servers.
- Closely work with the partner organization which includes OLE Intl and OLE Ghana to collaborate edtech projects
- Contribute the team in updating and upgrading the NEXS (customized OS for offline E-Library deployments)
- Assist in integrating and releasing content for E-Library for online and offline deployments.
- Train teachers on the use and maintenance of E-Pustakalaya server.
- Support schools to maximize the use of digital resources in E-Library

SYSTEM ENGINEER

F1Soft International| Dec 2014-June 2015

Managing and monitoring all installed systems and infrastructure
Installing, configuring, testing and maintaining operating systems, application software and system management tools

Walk clients through the products.

To recommend system and bring positive change to existing infrastructure.

Ensuring the highest levels of systems and infrastructure availability

4. Software Development(Intermediate)

- Django and Flask framework for python
- MVC understanding
- Asynchronous task handling with Celery and RabbitMQ(as data broker)
- A basic understanding of layouts and views
- Activities and their lifecycle
- GoogleMaps
- RestFULL API with retrofitting parsing
- Storing data
- Collection views (like ListViews and Recycler View) and Adapters (default and custom)
- Action Bar
- Push Notification with GCM and Firebase

PERSONAL SKILLS

Hardware Co-Ordinator

- Locus 2014, Tenure:1 year
Vice-President

- Kathmandu Don Bosco/Kanjirowa
Alumni, Tenure:1 year
President

- Society of Kaski Engineering
Students (SOKES), Tenure:1 year

REFERENCES

Rabi Karmacharya, Executive
Director
Open Learning Exchange, Nepal
rabi@olenepal.org

Dr. Nanda Bikram Adhikari, Professor
Pulchowk Campus, IOE
adhikari@ioe.edu.np

Dr. Sanjeev Pandey
Associate Professor
Pulchowk Campus, IOE

EDUCATION

Bachelor in Electronics and Communication Engineering
Pulchowk Campus, IOE, TU | 2010 - 2014
Elective: Networking with IPv6 and Remote Sensing

INTERMEDIATE PCM Major
Kathmandu Don Bosco College, Nepal | 2009-2010
Physics, Chemistry and Maths

School Leaving Certificate (SLC)
Tarapunja Education Academy, Pokhara, Nepal

PROJECTS

WIRELESSNAKSHA, WIRELESS ASSESSMENT SYSTEM

Major Project Duration : 1year

WirelessNaksha is the crowd-sourcing based project centered on the collection of wireless information from the users around the valley. Crowd-sourcing is performed using an Android app and visualization on web application.

Features:

1. Creating skeleton application UI using eclipse IDE.
2. Truly MVC structure application.
3. Strictly follow Activity Life Cycle with keep in mind Process Service Life Cycle.
4. Intent (explicit, implicit), Multi-threading.
5. Map Activity, Map Controller, LocationManager, Location Listener.
6. MySQL and Sqlite synchronization
7. Telephony and Broadcast Receiver

Supervisors: Dr. Nanda Bikram Adhikari ,Prof. Pulchowk Campus

Dr. Omprakash Gnawali,

Asst. Prof Houston University, Houston, US

Mr. Topraj Gurung,

Software Engineer at Facebook Inc., Silicon Valley, US

EPUSTAKALAYA (E-LIBRARY)

Project Duration : 1year

E-Pustakalaya is a library management system that can be used to handle basic bookkeeping function of a library. It is under development. With its ample use of python libraries to store dynamic content provide user-friendly user interaction.

Doc. <http://pustakalaya.readthedocs.io/index.html>

Team Member:

Lead System Engineer/ DevOps: Bikram Dhoju

Lead Software Developer: Manoj Gautam

Software developer: Bhojraj Karki

Features:

1. Python's popular Django framework
2. Lightning search of approx. 8000 digital contents with Elastic search integration
3. Celery integration with for asynchronous tasks as pdf to image conversion.
4. Deployment with Docker swarm for the system integrity.