Name And Address:

Amit Kamalbhai Dhanani
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Objective: I am an IT Consultant (open for a remote project base or full time good opportunity)- Can deliver best with full ownership of the project with full documentation, from Team Building to IT Infrastructure - Security to Performance and cost saving. Work delivery and ethics are guaranteed.

Looking for decision making profile only

I worked on many languages and various domains so, I need to refer manual on certain things while working on it but yes Its possible to deliver best in it.

Cover Letter

I am an IT Consultant & Cloud Architect

I worked and have hands-on experience on DevOps,DevSecOps,DevOpSec,Linux Admin/Freebsd/Linux Kernel Internal & its subsystem like kernel – network – eBPF, KVM,OVS/OPENFLOW,NETWORK & its SECURITY,FRRouting,FRR,Docker,Kubernetes,containers(its internal),AWS,Openstack(its internal),Machine Learning,Data Science,Statistics,Databases(SQL,NoSQL),IT Infra Automation & Coding(Python/Bash/Ansible/Terraform/Chef/Puppet/Ruby/PHP/Expect/Perl/ boto3/Go language/C,Rust),Penetration Testing - Cybersecurity(IT Infra and Web Application) & System Design for High Frequency Trading very well. I have a strong understanding of how web infra works and I also worked as Web developer and FASTAPI(for ML in the past)/Flask/Tornado. I also worked on web crawling using python (urllib,request,beautifulsoop, etc). I have intermediate level experience in C programming. I also worked on Hadoop (Big Data) Administration. Also Cryptography and Quantum Computing

I am a very enthusiastic person and I love digging into code/resolving/troubleshooting/reverse engineering and finding solutions. IT/Software are my passions. I believe in teamwork and sharing/caring with others. I have a subscription of online books/video **(www.oreilly.com/udemy.com)**/cloud with a high-configuration laptop to update myself and learn new things. I like to learn new things.

I invest money-time on R & D for innovation and update myself in Technology.

I can also work on Linux/Freebsd and Network base products development/architecture like SDN, Router, UTM, Firewall/WAF/IDS/IPS/SEIM,Email - DNS - Web Security,etc. **(like pfsense, ironport, sonicwall firewall, Barracuda Email Protection, WAF, WAAF, etc)**

I have skills in Open Policy Agent or Security as Code or Policy as code for DevSecOps/ AWS/ Kubernetes/ Docker/Linux /Firewall/ IDS/IPS/WAF/API Security/IAM (Identity and Access Management, JWT, SAML, OPENID, Connect, OIDC,OAUTH2.x).

I have a good skills in Edge Computing /K3s/IOT/Raspberry Pi.

I have skills in AWS SageMaker, MLFLow, MLOps, LLMOps and LLM development,LLM Security

Can build custom cloud & automation systems without using “any open source cloud software like openstack/cloudstack or vmware etc” from scratch. I worked on such system design and implementation

I am also digging (learning) into Graph Database like Neo4j,Blockchain/Post Quantum Cryptography/Advance Maths/statistics & Parallel Processing, Neuromorphic Engineering,etc

You can find recommendations on my Linkedin profile: https://www.linkedin.com/in/dhananiamit .

My Current employment and past employment details are in my CV.

More details are in my CV (quick link of CV : https://amitdhanani.in/detailed-resume/)

I am also running YouTube Channel to share technical knowledge : https://www.youtube.com/@ittraining2023

I am also running Meetup group on IT Knowledge sharing: https://www.meetup.com/pune-information-technology-meetup-group

You can find my Technical blogs here : https://amitdhanani.in/category/blog/

WORK DELIVERY IS GUARANTEED.

We can do a POC(Proof of Concept) assignment from your side if you want to assure my capabilities.

Personal Note

I am permaculture/farming enthusiastic so, I wish to work remotely from there with hobby farming. Even I wish to be social volunteer for any good cause with willing to contribute some amount from my earning personally and wish to meet people like scientist, philosophers, universities,etc if I can learn from them. I don't believe in any religion nor any groups like atheist/non-atheist but I believe that love, ethics, help each other etc values are most important. I don't believe to force any of my belief on anyone but I believe I have rights to express my understanding at my personal space(like my twitter,linkedin,facebook, etc). I believe life is best when one have 3-4 best friends to share personally and contribute something(help) good to society without any bias. Ethics is main thing and living with others with manners and without any nuisance (like noise pollution, abuse, miss behave,etc). **I prefer solitude mostly with my books(on science, philosophy, technology, IT, etc)/computer/etc**

I can learn anything and believe in work ethics with best work delivery.

Details

Serving in following more info at https://www.amitdhanani.in
Recommendation at : https://www.linkedin.com/in/dhananiamit
Detailed CV & Small summary cv : https://amitdhanani.in/detailed-resume/
Technical Blog: https://amitdhanani.in/category/blog/
Technical YouTube Channel: https://www.youtube.com/@ittraining2023

I have around 10 years of experience in IT including 10 years in Linux Administration/ Linux Solution Consultant and 5 years in KVM with strong troubleshooting skills L3 and over L3 troubleshooting.

Skills and Projects

- Linux Administration & troubleshooting (vmstat,iostat,netstat,route,sar,slabtop,etc)
- FRRouting/FRR

- SELINUX

- TCP/TLS/HTTP/2, GLSB, ADC/Nginx/DNS/HAPROXY, HTTP3/QUIC

- eBPF/XDP

- eBPF tools with kprobe and uprobe tracing systemcalls, bpftool, bpftrace, strace, etc

- WAF(Web Application Firewall)/WAAF(Web Application and API Firewall) (Squid, Modsecurity), Web Caching(squid)

- nginx and apache forward and reverse proxy and web services

- Building of rpm and deb packages using rpmbuild, dpkg-deb

- **KVM (NUMA/PCI Pass Through,GPU,Hughpage, tuning,SR-IOV), Bare-metal with SR-IOV Cisco UCS,RHVM . virsh and libvert. QEMU KVM with tap with bridge and nat forwarding/routing,pool,xml file edit and defining various thing like network/interface, taking snapshot, image creation, qemu-image image conversion like raw to qcow2, virt-manager, virt-install, virt-sysrep, virt-clone, vnc, virsh console, migration, virsh domblkstate - domifstate - vcpucount – vpcuinfo – list, etc**

- Linux Bridge, Tap, Tunnel, macvtap, vethpair, Linux name spaces,GRE, VRF(Virtual Routing and Forwarding), etc

- iptables firewall, nftable firewall and iproute2 utilites for policy based routing, TCPWrapper based Firewalling

- OpenVswitch – tap, bridge, VxLan, Vlan,Openflow, SDN, tag, trunck,patch etc

- SSL tunnel – stunnel, socat redirection of traffic, secure traffic between two endpoints

- Linux Performance Tuning and Linux Internal

- Linux Based Network Bandwidth Control using CBQ

- Linux to Linux and Linux to Windows Migration

- Linux email server and email server security postfix and sendmail – mimedefang filtering,clamav antivirus, DKIM, DANE, SPF, DMARC,Dovecot, Size and file type etc filtering

- Linux File Server (Samab/NFS) with custom permission using setfacl and setgid plus mode and umask and clamav antivirus

- Linux Kernel Parameter tuning using sysctl, /proc and /sys

- Installation of Software like configure, make, make install, rpm, dpkg, dnf, zypper, yum, apt/apt-get, etc

- Linux Router and Gateway implementations

- Linux Installation – Network and DVD/CD/Pendrive

- Linux DHCP(dnsmasq/dhcpd),FTP(vsftp,proftp),SSH,LDAP(multi-master replication of 389-ds LDAP server)

- Mysql,Mariadb and Postgresql replication and automation,Mongodb,couchdb, SQL,NoSQL,elastic search, Logstash, Kibana(ELK)

- ISP Portal which manage bandwidth of user and user login.

- Malware detection toolkits – maldet, rkhunter,chrootkit and clamav

- PHP and Mysql based Project (judgment search) as internship for High Court behalf of Antriksh Communications

- Linux users and Active Directory Integration using sssd

- Arista Switch Automation using Ansible, Puppet

- AWS Automation using Chef, Terraform and Ansible and Python Boto3

- AWS skills (Cloud Architect)
EC2, ECS(Farget), EKS(Managed node, CSI driver, CNI), Autoscaling, ELB(Load Balancer), Route53, AWS config, Control Tower, Multi Account Management, RDS, IAM (User, Group, Role, STS), Macie, GaurdDuty, Coudtrail,Cloud Watch,VPC, VPC flow log, AWS Inspector, SQS, SNS, Lamda/Step Function, API Gateway, EBS(Encryption and Snapshot), S3, EFS,KMS, Secrete Manager, Parameter Manager, AWS runner, Route Tables, AWS Network Firewall, Transit Gateway,WAF, EMR, Aurora, Dynamodb, SCP, AWS VPN, VPC peering, etc

- Linux OpenVSwitch Implementation POC for CSR 1000v Router for Telecom Malasiya behalf of Cisco and behalf of Infinity labs(Cloud Architect)

- Linux Zabbix, Nagios and NewRelic implementation and monitoring also used Prometheus and grafana

- Openstack implementation using packstack, manual install and openstack-ansible. Used with OpenVswitch and Linux Bridge scenarios - Flat network, vlan network,vxlan,gre, bridging architecture, etc.

- Linux Operation using sudo

- ELK implementation and monitoring for logs

- Python used for automation(netmiko,paramiko,pexpect,fabric), log parsing and in Flask, FASTAPI, Tordono,Web Scrapping(beautiful soup, scrapy and urllib), Pentest for network packet crafting and Custom Cloud.

- Munin and Smokping

- Memcached

- Ansible, Chef, Puppet, Terraform, Python, Perl, Go, Expect, C, Bash shell scripting,Ruby and Rust for Server and Network Automation and coding.

- Snort IDS/IPS implementations

- HAPROXY and Nginx for proxies.

- KeepAlived and Pacemaker for High Availibity

- DNS bind9 for DNS services(recursive, forwarder,caching, authoritative, master slave, split, DNSSEC, etc)

- Linux Kernel Compilation

- Gitlab integration with Active Directory

- DevOps/DevSecOps using Gitlab CICD or Jenkins CICD with Ansible/AWX,Bash shell, Python, Docker, Docker scout/Xray, Sonarquabe, Kubernetes, AWS and Linux Server

- Linux based VPN openvpn

- Rancid Implementation

- Linux Hadoop Administration and Kafka

- Penetration Testing
  Pentest of Linux, Windows, Network Device(Network Security Device also), Cloud and Web Services
  Tools and concept: nmap, nikto, nemesis, python scapy for network packet crafting, Burp suite, ZAP proxy, Kali Linux, subbrute, DNS recon, ONIST Frame work, Active and Passive reconnaissance, Wireshark/tcpdump, hping, firewalk, Metasploit, maltango, google dork,Gitlab SAST, Sonarquabe SAST,man in middle,DHCP snoop,ARP and DNS cache poision,cain and abel ,Hydra,john ripper, smb,nfs, network from layer2 to layer 7 penetration testing(SMB, SNMP, NFS, SMTP, DNS, DHCP, LDAP, IMAP, POP3, FTP, KERBEROS, SSH,etc), etc OWASP top 10, OWASP top 10 API security and OWASP top 10 LLM pentest - https://amitdhanani.in/penetration-testing-services/

- Kubernetes/Containers
High Availability on Bare-metal, RBAC,Namespace, dns, ebpf,consul, mtls, Auditlog, webhooks, Security context, capabilities, selinux, apparmor, Pod Security Admission, Admissions Controller, OPA, Node affinity, pod affinity, anti affinity, taint, tolerance, zone selection Multi cluster federation, External Service, API Gateway,Ingress,statefulset,deployment, daemonset, PVC,PV, storage class, storage csi deriver, cni, etc. Linux name space,kube-proxy, bridge, veth, iptables, vxlan, ipvs, cgroup, etc internal. CNI like Calico, cilium, Weavenet, kube-proxy, iptables,veth pair, bridge,namespaces,Metal LB and service mesh (Istio) ,k3s,etc
Custom Kubernetes Controller implementation

- FreeBSD 13
Ports, Network and Services, Firewall(ipfw,pf), Security, TCP wrapper, altq(Bandwidth management with traffic priority), pkg, booting, Customization, Build and release,Poudriere,Bhyve,vm-bhyve, VNET jail, Jails,epair,containers,

- Docker and Docker scout. Docker internal as Linux namespace(Containers)

- Machine Learning, Data Science and Statistics
Library: Keras, Ternsorflow, Pytorch, OpenCV, Yolov5,Scikit-learn,CUDA/GPU
Algorithm: Data Preparation,Data Standardization, PCA, Deep Learning, CNN, SVM, Logistic Regression/Classification, K nearest Neighbor, Linear Regression, Polynomial Regression, Ensemble Learning, Random Forrest/ Decision Tree, LSTM/RNN/Time Series, NLP,Bayesian Algorithm, Semi-supervise learning, Unsupervised learning and Reinforcement learning, Hyper parameter tuning, etc

- LLM (Large Language model) & its Security
RAG,Langchain,vectore store/db,embedding words,chunks,documents,similar/cosine search,etc

-LLMOps using Jenkins and Mlops using MLFlow, Jenkins and other tools

- Linux system desing for high frequency trading like network tuning, share library tuning, storage tuning, etc

-Good Understanding of Edge Computing/IOT/k3s/Raspberry pi

- ARGOCD

- Tripwire

- Rego

- Cryptography (Public/PKI/Asymmetric and Symmetric Cryptography)

- ntp, FreeRadius,syslog, etc

- I worked on project named “Panel Solution” – which is web-based GUI frame work for Linux administration with integration of various Linux services.

“Panel Solution” has following features:

-Auto-Reply (web based gui)
-Vacation-Note (web based gui)
-User Administration (web based gui)
-Antivirus & Content filtering (file size & file type)
-Spam Control
(using sendmail, mimdefang, sudoer, clamav antivirus, php, shell scripting)

- Wordpress,mysql,nginx installer and configurator. Which is available at
www.github.com/amitdhanani2012/wordpressconfigurator

- kubernetes implementation with Helm, services like Load balancer,nginx wordpress container replicas in deployment pod with RDS External Name Service with mariadb Multi AZ RDS replications database, Redis session master-slave statefulset pod with pvc - ebs of aws csi provisioner(persistence storage), Eksctl - EKS auto scaling of nodegroup, kms secret encryption with eks, troubleshooting, etc
- Linux Distro – Redhat, Centos, Centos Stream, Ubuntu, Debian, Open Suse, Suse, etc

- **JAVASCRIPT:** Dynamic page creation, form validation, functions, variables, DOM EVENT/OBJECTS like windows.open, DOM,etc.

- **Protocols: L2toL7:**
Ethernet frame/TCP/IP//UDP/http/https/smtp/ssl/ntp/snmp/pop3s/pop3/imaps/imap/DHCP/DNS/HSRP/VRRP/ Routing/Bridging-switching,Ppp,pptp,ssl vpn,chap,pap,eap,radius,stunnel,routing and load balancing,etc

-TCP In Depth
TCP three-way hand sack, flags, slow start, nagle’s algorithm, TCP delayed ack, Selective ack, congestion control, Four way close

-HTTP (1.1)/2/HTTPS IN DEPTH
request, response, status code 1XX-5XX, cookies, AUTH Header, encoding, caching, conditional header, method GET,POST,PUT,HEAD,OPTION,DELETE,TRACE (REST API – UPDATE METHOD)

-DNS IN DEPTH
Recursive/Referrer, DNS header-Question/Answer/Authority/Additional, codes-opcodees, etc.

- SSL/TLSv1.2/TLS1.3 IN DEPTH
Hand sack protocol, record protocol, alert protocol

-IPv4/6 in depth
IPv4 - Classless/Classful Address, netmask, network and host address, loopback, multicast, broadcast address, NAT/PAT,ICMP error and info messages, Public/Private address, Static routing, ARP – IP to MAC, Path MTU, Fragment,(DF, MF, flag),TOS(Quality of service),IPv4 Options – loop source route, strict source route, timestamp, record route, etc. (Tracert working using IPv4 TTL and UDP port),
IPv6 – link local, multicast, unique local, global unicast, anycast addresses, Neighbor discovery, Solicited Multicast address – Node and Router, SLAAC, DAD, extension headers, options – Router Alert, Jumbogram, Destination option, Routing header, Fragmentation(can be done between two end device),Path MTU, etc.

- BGP,OSPF

-IPSEC
IKE/ISAKMP – phase 1(IKE SA – main mode/aggressive mode - symmetric algorithm/hash/psk/ digital cert/auth method negotiations), phase2 (IPSEC SA/quick mode – establishment negotiation in encrypted traffic (created tunnel in phase1) for ipsec),SPI(Security parameter index to identify SA in SADB), Security Policy Database(SPD), ISAKMP header, IPSEC header – ESP, AH, tunnel mode, transport mode

-SMTP

SMTP commands helo, ehelo, mail from, rcpt to, data, status messages 1XX-5XX, AUTH. mime, smime , pgp, Email security-relay - smtp auth- phishing(identity theft)-pharming-ip/domain blacklist-spf/domain key/DANE/DMARC

-DHTML/CSS/XPATH: Forms, Buttons, Tables, Click events, selector,class,import,etc.

-Shell Scripting: Bash shell, loops, input/output streams, redirection, filters, read, interactive scripts, automation of task, Unix commands (cp, vi, mv, ls, grep, find, sed/awk, jq, sort, etc.), pipe, etc.

-WINDOWS BASICS: User Account Creation, Installation, Partitioning & formation of disk, msconfig, ipconfig, basic networking, file association, attrib, setting mbr, internet connectivity setup & troubleshooting, LAN/WAN networking setup, antivirus installation, etc.

-DOS: Copying files/folders, files/folder attributes checking, mbr fix, partitioning, formatting disk, etc.

-OS Fundamentals/Linux Kernel Internal/Tuning: Scheduling, threading, process, paging, virtual memory, file system, mutex, storage,network ,etc.

-Vmware: Installation & Setup of Vmware Work Station, Vmware workstation Network Configuration, Installation of Operating System on Vmware Work Station, VMWARE ESXI installation, Vcenter

Virtualbox, KVM

- L2/L3 SWITCHING CONCEPT.: trunk, tag, stp(spanning tree), bridging, patch port, veth pair, vlan, (ovs overlay - GRE,VXLAN),vxlan etc. Wireless

- linux name space- network name space(ip netns) /vlan/sub interface/tap tunnel interface/veth pair/bridge/bonding/teaming/vxlan interface creation using linux bridge and ovs and virtual network inside name space or instance, etc

SAN and NAS Concept.

Some of Blog Post

https://amitdhanani.in/2025/05/06/can-we-generate-shared-secrete-dynimically-during-web-session-intialization-during-each-request-response/

https://amitdhanani.in/2025/02/10/how-to-setup-firewall-and-traffic-shaping-with-ipfw-on-freebsd/

https://amitdhanani.in/2024/12/22/how-to-use-virtual-credit-card-to-hide-identity/

https://amitdhanani.in/2024/11/12/how-to-use-python3-boto3-to-automate-aws-service-ec2-vpc-example/

https://amitdhanani.in/2024/09/17/how-to-create-custom-kubernete-controller-operator-with-metacontroller-and-python-bussiness-logic-container/

https://amitdhanani.in/2023/09/21/how-to-setup-ingress-in-kubernetes-on-bare-metal/

https://amitdhanani.in/2023/07/24/what-is-openstack-made-of/

https://amitdhanani.in/2023/07/04/eks-load-balancer-and-tls-certificate-termination/

https://amitdhanani.in/2023/06/13/why-ip4-ipv6-fragmentation-require-what-is-path-mtu/

https://amitdhanani.in/2023/06/12/ipv6-security-tip-1/

https://amitdhanani.in/2023/06/11/check-points-for-your-kubernetes-clusters-node-pod-securityeks-and-bare-metal/

https://amitdhanani.in/2023/04/27/how-web-or-http-1-1-or-http-2-request-works-what-are-http-methods/

https://amitdhanani.in/2023/04/26/how-git-works-working-directory-staging-area-and-commit-a-git-workflow/

https://amitdhanani.in/2023/04/18/how-ip-address-converted-to-hardware-address-of-computer-in-lan-to-communicate-with-each-other/

https://amitdhanani.in/2023/04/17/machine-learning-algorithm-type/

https://amitdhanani.in/2023/04/15/how-dns-web-address-works-name-resolution-process/

https://amitdhanani.in/2023/09/21/how-to-setup-kubernetes-cluster-ha-with-haproxy-and-kube-api-load-balancing/

https://amitdhanani.in/2024/12/22/hide-identity-of-your-internet-connection-and-use-proxy-for-various-perpose-like-web-scraping-or-security-testing/

https://amitdhanani.in/2025/02/15/how-to-train-machine-learning-model-withou-ml-library-with-simple-python-code-a-internal-work/

https://amitdhanani.in/2026/04/10/is-it-possible-to-tunnel-data-via-dns-messages/

https://amitdhanani.in/2026/04/23/how-to-create-realtime-web-firewalling-or-what-is-architecture-of-it/

CERTIFICATIONS

I passed 23 international certifications from www.brainbench.com (transcript id: 2655410)
https://www.linkedin.com/in/dhananiamit (it has details - right now its expire)

EDUCATION

Bachelor of Computer Engineering from Gujarat University
September 2002 – June 2005 (57.78%)
Collage: Sardar Vallabhai Patel Institute of Technology, Vasad, India

Diploma in Computer Engineering from Technical Examination Board
August 1999 – May 2002(77.54%)
Collage: B & B Institute of Technology, Vallabh Vidya Nagar, India

Higher Secondary Certificate Exams (HSC: 12th standard)
March 1999(64.15%)
School: DCC Vividh Lakshi High School, Jamnagar

SSC: 10th standard
March 1997(77.14%)
School: St. Xavier's High School, Jamnagar, India

Experience

Curious at IT (IT Consultant and System Architec Cybersesecurity)(Freelancer)

Feb 2024 - Present

(worked on some small projects with some company)

Open to deliver work in skills mentioned in this CV

Also working as Cloud Architect. Containers

Quantum Computing.FRRouting, FRR,GLSB/ADC in Kubernetes using Gateway API/Ingresss and HAPROXY, Nginx.

I can work on Linux/Freebsd and Network base products development/architecture like Cpanel/Panel solution, SDN, Router, UTM, Firewall/WAF/IDS/IPS/SEIM,Email - DNS - Web & API Security - IAM, Orchestration, etc. **(like pfsense, ironport, sonicwall firewall, Barracuda Email Protection, WAF, WAAF, etc)**

I have skills in Open Policy Agent or Security as Code or Policy as code for DevSecOps/ AWS/ Kubernetes/ Docker/Linux /Firewall/ IDS/IPS/WAF/API Security/IAM (Identity and Access Management, JWT, SAML, OPENID,OAUTH2.x).

I have good understanding of Edge Computing /K3s/IOT/Raspberry Pi

Skills in in LLM,RAG,Langchain,vectore store/db,embedding words,chunks,documents,similar/cosine search,etc. Can work on such projects. LLMOPS/Jenkins,MLFLOW/MLOps,AWS SageMaker,LLM Security,etc

Can build custom cloud & automation systems without using “any open source cloud software like openstack/cloudstack or vmware etc” from scratch if needed. I worked on such system design and implementation

My cv at https://amitdhanani.in/detailed-resume/

Open for good opportunity where I can deliver best, freedom of work, decision making, remote day (no night shift nor urgent work) work, good pay, trust on each other, etc.

Information Technology is my passion and money is by product. I believe in committed work, ethics, full documentations of work and responsibility of work. I spend/invest good amount of time and money on online books/video subscriptions(oreilly.com/udemy.com) and high end laptop/cloud account for R & D of technology.

I also spent free time on science,self sufficiency,remote sensing,etc https://sciencewithme.net

POCS and Projects

- Implementation of AWS EKS
Repo of POC using EKS, Terraform, Helm and Consul
https://github.com/amitdhanani2012/Terraform-eks-consul-helm-aws-amit (GSLB/ADC AWS ROUTE53)

- POC AWS ECS Wordpress container with s3 Wordpress media offload with RDS

https://amitdhanani.in/2024/04/01/how-to-deploy-ecs-wordpress-container-with-s3-wordpress-media-offload-with-rds/

https://github.com/amitdhanani2012/ecs-wordpress-terraform-poc

- POC to deploy AWS Network Firewall using terraform

github repo : https://github.com/amitdhanani2012/aws-firewall-poc1

Blog : https://amitdhanani.in/2024/09/09/how-to-deploy-aws-network-firewall-with-autoscaling-load-balancerec2-instances-and-multiple-az-subnets-using-terraform/ (GSLB/ADC AWS ROUTE53)

Blog Event Video on topic “How Machine Learning internally works – Training without Python Library using Simple Python Code link is as below
https://amitdhanani.in/2025/02/15/how-to-train-machine-learning-model-withou-ml-library-with-simple-python-code-a-internal-work/

Blog on Proxy use for different source IP addresses for Web scrapping **https://amitdhanani.in/2024/12/22/hide-identity-of-your-internet-connection-and-use-proxy-for-various-perpose-like-web-scraping-or-security-testing/**

Blog on Hide Identity while purchasing using Virtual Credit card -
https://amitdhanani.in/2024/12/22/how-to-use-virtual-credit-card-to-hide-identity/

Blog on how to troubleshoot Linux Network Problem - **https://amitdhanani.in/2025/07/30/how-to-troubleshoot-linux-networking/**

- Audit & Compliance Standard – NIST, PCI DSS,HIPPA,etc

Wipro
Duration: 20 Oct 2023 to 5 JAN 2024
Designation: Technical Lead for Devops/SRE/Automation
Worked on Hadoop cluster and Devops/SRE/Automation/Automation on Linux Server/Services using Ansible/python/Jenkins/Kubernetes/Docker jobs etc.

Freelance
Duration: June 2022 to Oct 2023
Designation: Freelancer
I am serving some client for Linux Infra/AWS/Devops/Penetration test/Machine Learning Solutions.

Worked on KVM/Openstack Project to create GPU based Cloud Platform to Train AI Models. Training of ML Model using Tensorflow, Keras, Pytorch using Cuda library/nvidia gpu.

Continuos Gravitational Wave Detection using Machine Learning/Data Science as Volunteer
Duration : Nov 2022 - Jan 2023

Worked on Machine Learning Challenge on Kaggle to detect Continues Gravitational Wave
We had "100% results" on Perceptron for Frequency 100Hz and Band 1Hz (on signal/noise generated by https://github.com/PyFstat) to detect Continues Gravitational Wave for detector H1,L1,V1 and different permutation and combination using noise

For feature extraction I used Frequency as additional feature using max value of amplitude on particular frequency and those frequency feature marked in 1/0 in rows in CGW signal and noise and vice-versa

https://github.com/amitdhanani2012/G2net-CGW

Zummitinfolabs (Internship) (remote)
Duration: January 2022 to May 2022
Designation : Data Science Intern

Learn below via solving assignment
1. Data Preparation (Data standardization, Feature Extraction/Dimension Reduction/PCA)
2. Linear regression/SVM/logistic and polynomial regression/Neural Network/CNN
3. Yolov5
4. K nearest Neighbor
5. K fold
6. Ensemble learning
7. Model training/Hyper parameter tuning
8. OPENCV
9. FASTAPI
10. Decision Tree/Random Forrest
11. Some what RNN/NLP
12. Time series

Project Done:
Participate in from project workflow from python coding,model training to integration of FASTAPI with Face recognition, Currency Detection and Text extraction from image
-Library used and platform
yolov5, pytorch, cnn, keras,tensorflow, dlib, easyocr, pytesseract, opencv, Ubuntu 18.04lts on AWS
Used CUDA library to use GPU on Ubuntu Linux For ML model to train

Rocket software (PUNE, MAHARASTRA)(remote)
Duration : October 2019 to November 2021

Designation: SDET iii

Role and Responsibility

Linux Distro Kernel and User space Testing (Kernel space LTP test suite and User space custom Test Case creation in C/Python/Bash/PHP/Expect and some what perl /etc)

Linux Administration and Automation Work For Distro.

Worked and fixed/design ABAT system which is custom build cloud on bare-metal & KVM to deploy Linux custom distro on bare-metal & KVM and automate test with results using various component to automate deploy of build of OS from form of tar-ball.
Various automation component in this system was python,bash,php,expect,c,perl,linux subsystems,web service,email service,etc. (Custom Cloud & Automation from scratch fix/design without using preexisting cloud software)

Package building like rpm using rpmbuild/spec file etc

Worked on IPv6 functionality test using TAHI test suit using freebsd

Also working Web pentest for Internal Cloud Portal based on nodejs and cloudant/mongodb using Kali Linux(Burp Suite/ZAP/Metasploit/nmap/etc/ information gathering and manual penetration tool.)

Pentest for IDS/Snort using metasploit/nemesis/scapy/nmap

Devops Stuff/Kuberenets(Helm)/AWS/Openstack/Cloud Architect/Containers (OCI run time like runc,containerd, Docker) – I used it in Operation and Implementation. End-to-End platform architecture. Puppet & Ansible Automation

Some of project

https://github.com/amitdhanani2012/rocketbuild on Kubernetes auto provision having ssh - Kubernetes Dashboard

ADC/GSLB – Haproxy Load Balancer on Kubernetes

FLextrade (PUNE, MAHARASTRA)

Duration: August 2016 to September 2019

Designation: Senior System Administrator

Role and Responsibility

Implement/build/patch/migrate server and monitor as well as automate task on server. – Linux and Vmware, AWS, Openstack.,Cloud Architect, Containers (OCI run time like runc,containerd, Docker) – I used it in Operation and Implementation. End-to-End platform architecture.,Puppet,Ansible,python,KVM

ADC/GSLB – Haproxy Load Balancer and Ingress of Kubernetes

Some of project

https://github.com/amitdhanani2012/fab_git/blob/master/fab_git.py on python automation for data center information

https://github.com/amitdhanani2012/ssh_file_copy on sshing and running command using shell scripting

https://github.com/amitdhanani2012/expect_python on Python expect to run various command on servers

Infinity labs (PUNE, MAHARASTRA)
Duration: 15 December 2015 - August 2016

Designation: System Administrator

Role and Responsibility

Implement Linux based solutions

Mostly used skills

Linux Administration, Ansible, chef, puppet, aws, azure, docker, python, openstack,containers,(OCI run time like runc,containerd, Docker) – I used it in Operation and Implementation in production. End-to-End platform architecture.

Some Projects

-Linux server/Arista virtual switch Automation using
- Redhat KVM and Openvswitch implementation for CSR1000v router (RHEL6.6)(for Telecom Malaysia behalf of cisco)

-Openstack implementation using kvm with Openvswitch and linux bridge
- https://github.com/amitdhanani2012/rakuten on Ansible to install and run python flask on vagrant server with log rotation with shell scripting

- https://github.com/amitdhanani2012/cpa_assingment_final on install flask on vagrant machine having memcached statistics from flask ui using shell scripting etc

Infostretch Corporation (PUNE, MAHARASTRA)

Duration: 27 august 2015 – 9 December 2015

Designation: SRE – Linux Administration

Role and Responsibility

Build/Implement/Monitor/Automate Linux servers on Dimension Data

Most used skills
Linux administration, shell scripting, cloud, malware detection, ldap(389-ds) /docker,container

Some projects
- 389-ds with multi-master replication with ssl.(centralize authentication LDAP)
- malware detection, maldet, clamav, rkhunter, chkrootkit configuration

Infosys Limited (PUNE MAHARASTRA)

Duration: 6 October 2014 – 13 April 2015

Designation: Technology Analyst

Role and Responsibility

Linux Administration, Automation, vmware

Most Used Skills

Linux Administration – ILO HP server, Shell scripting- Automation, Vmware ESXi, Service deployment, puppet

Arista Technologies (RAJKOT GUJARAT)

Duration: November 2012 to October 2013

Designation: Jr. PHP Programmer

Most Used Skills

php, Joomla, Magento, MySQL, Linux Administration – Ubuntu & Centos server handling, file server(samba), mail server(sendmail), Mysql Server, Ftp server, etc. Cron and shell script to automation, KVM, Virtualbox

Some Projects

-website development for various client abhimetal, culturaldoll, swatik, vimal metal,etc. – in core php, html, javascript ,joomla
- magento based shopping card website for client adamas,etc
-samba file server configuration – custom right on directory – local server in company
-web server configuration
-DNS administration -configuration for remote server – company's server

Self Employed AT HOME (JAMNAGAR,GUJARAT)

Duration: November 2011 to May 2012

Designation: Trainer

Role and Responsibility

Teaching Linux Administration at Home with php, MySQL

Freelancer (RAJKOT, GUJARAT)

Duration: January 2008 to June 2009

Designation: Linux Training and implementations (installation, administration, deployment of Linux, php, mysql)

Role and Responsibility

Linux training and implementation

Most used skills
Linux Administration, Shell script, etc.

Antriksh Communications (Ahmedabad, GUJARAT)

Duration: June 2005 to May 2006

Designation: Network Engineer

Role and Responsibility

Linux implementation, php, mysql programming.

Mostly used skills
Linux Administration, Shell script, Samba, NIS/NFS, SQUID, IPTABLES, etc. Linux core skills, PHP, MYSQL,SENDMAIL,POSTFIX

Some Projects

-Proxy server configuration – forward and reverse proxy – authentication – ip based access control – domain name-based access control – time based access control for client gitco and cera ceramic
-sendmail configuration – spam control – antivirus configuration for client gujrat sports club
-samba file server configuration – antivirus integration – custom right on directory for client gitco
-print server configuration using cups for client gitco
-web server configuration for client arvind mill
-DNS administration -configuration for client arvind mills
- Gujarat High court web portal development for judgment search
- corporate and student training for Linux Administration for client sanblue(www.fibertofashion.com), DAIICT AIRFORCE
-nfs/nis configuration for linux to linux authentication and file sharing for client gitco
-windows to linux migration for client gitco
-windows installation and configuration for client machines for client gitco
-iptables firewall configuration for linux server
-mysql server administration -installation-configuration for client gujarat high court
- ISP portal for bandwidth and user management
-LVM and RAID (Linux Based) configuration for client gitco
-Bandwidth control using cbq for client hotswan
-Heatbeat cluster for gitco
-ftp configuration for client arvind mills

Antriksh Communications (Ahmedabad,GUJARAT) - Internship

Duration: January 2005 to June 2005

Designation: Network Engineer(intern)

Role and Responsibility

Linux implementation, php, mysql programming.

Most used skills

Linux Administration, Shell Script, PHP, MYSQL

Some Project

- Linux (redhat8, 9 & fedora Linux) installation
- Linux administration file permission – user administration
- High Court Judgment Search Engine in php/mysql

Wiptech Inc. (JAMNAGAR,GUJARAT) Internship

Duration: January 2002 to May 2002

Designation: Trainee Hardware and network(intern)

Role and Responsibility

windows Networking & Linux Implementations

Some Projects

Linux installation configuration – caldera Linux
Windows Installation – windows 95,98
Hardware configuration
Unix ware configuration

Collage Time Project and Seminar

Project Works
-Hex Editor (in C)
- Floppy Sector Reader (in C and in assembly)
- Fan Controller (C program to parallel port (0x378) interface)
- Simple file transfer server and client using java

Seminars
- TCP Attacks (White Paper submitted)
- Virus (Boot Sector Virus: Detail s of int 13)
- Networking Basics & Utilities
(Network Monitoring and Routing Concepts)