

AMIT KAMALBHAI DHANANI

IT & CYBERSECURITY CONSULTANT

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EXECUTIVE PROFESSIONAL PROFILE & OBJECTIVE

Highly accomplished, high-ownership IT & Cybersecurity Consultant with around 10 years of experience spanning comprehensive institutional employment, internships, and strategic high-impact freelancing. Specializing in autonomous end-to-end infrastructure architecture execution, enterprise-scale DevSecOps pipelines, kernel-level Linux Administration engineering, advanced Machine Learning implementations, and secure System Design optimized for specialized domains like High-Frequency Trading (HFT). Proven capability to engineer custom private cloud ecosystems entirely from scratch without baseline reliance on standard vendor orchestrators. Possesses a strict mandate for decision-making profiles that grant total operational ownership spanning complete technical documentation, cross-functional team building, infrastructure-wide security enforcement, fine-grained performance tuning, and aggressive cost reduction. Strongly committed to a remote-first, high-trust work model that values absolute delivery ethics, innovative R&D, and structural technology stewardship.

TECHNICAL MATRIX

Core Infrastructure & Security	Linux Administration & Kernel Internals: Profound hands-on expertise in kernel diagnostics and subsystem tuning. Proficient in eBPF/XDP network packet parsing, custom kprobe/uprobe tracing, system-call hooking, strace, bpftool, and custom kernel compilation. Master of optimization utilizing sysctl, /proc, and /sys.
	Software-Defined Networking & Core Routing: Advanced implementation of Layer 2 to Layer 7 architectures. Expert in OpenVswitch (OVS) with OpenFlow integration, SDN controllers, VXLAN, GRE, Linux Administration network namespaces, VRF routing, policy-based routing (iproute2), and traffic-shaping via CBQ. Proficient in advanced network protocols and services including OSPF, BGP, IPSec, DNS, and FRRouting. FRR
	Enterprise Virtualization & Firewalls: In-depth hypervisor virtualization execution using KVM (NUMA orchestration, PCI/GPU pass-through, HugePages tuning, and SR-IOV configurations across bare-metal Cisco UCS environments), Red Hat Virtualization Manager (RHVM), and VMware vCenter ESXi. Robust deployment profiles of WAF/WAAF platforms (ModSecurity, Squid caching), Snort IDS/IPS, iptables, nftables, and advanced Email Security architectures.
Cloud, Automation & Identity	DevSecOps & Automation: Deep continuous delivery pipeline integrations via GitLab CI/CD and Jenkins. Structural policy configuration utilizing Open Policy Agent (OPA) and Rego. Fluent across configuration management tooling: Ansible, Terraform, Chef, and Puppet.
	AWS Architecture & Kubernetes: Multi-Account Management via AWS Control Tower & SCPs, EKS (Managed nodes, custom CNI/CSI, Helm), ECS Fargate, AWS Network Firewall, Transit Gateway, Lambda/Step Functions, GuardDuty, Macie, Inspector, KMS, and Aurora/DynamoDB clusters. Bare-metal High Availability clusters, strict RBAC, network topologies (Calico, Cilium, Istio Service Mesh), Pod Security Admissions, custom Kubernetes Controller/Operator designs with MetaController, and OCI runtimes (runc, containerd, Docker Scout).
	Identity & IAM Frameworks: Production deployment of unified authentication vectors: JWT, SAML, OAuth 2.x, OpenID Connect (OIDC), multi-master 389ds -LDAP directory service replications, and Secure Security Services Daemon (SSSD) integrations with Active Directory.
Software Engineering & Data	Polyglot Software Engineering: Production-grade infrastructure software design and development capability spanning: Python (Boto3, FastAPI, Flask, Tornado, Scrappy), Bash, Go, Rust, C, Perl, Ruby, Expect scripting, and fundamental web blocks (HTML, CSS, DOM, JavaScript).
	Data Science, MLOps & Quantum Computing: Advanced mathematical modeling and data architectures. Frameworks: TensorFlow, Keras, PyTorch, and OpenCV utilizing CUDA/GPU execution. Deployment architectures via MLflow, AWS SageMaker, robust LLMOps pipelines, and Quantum Computing frameworks and algorithms.
	Datastores & Observability: High Availability clustering across relational and NoSQL frameworks: MySQL, MariaDB, PostgreSQL (advanced automated replication topologies), MongoDB, CouchDB, Neo4j Graph DB, and Elasticsearch/Logstash/Kibana (ELK) monitoring. Production diagnostics with Prometheus, Grafana, Zabbix, Nagios, and NewRelic. Full-Spectrum Penetration Testing & Cryptography against OWASP Top 10 standards.

CHRONOLOGICAL PROFESSIONAL EXPERIENCE

Curious at IT — Consultant & Principal System Architect (Freelance)

Feb 2024 - Present

- Engineered small to mid-scale enterprise solutions as an autonomous technical authority, providing full architectural design, technology selections, implementation strategies, and highly granular infrastructure documentation. Consulted on specialized Cloud Native security structures utilizing Open Policy Agent (OPA) for Policy-as-Code verification across multi-region AWS footprints, Docker containers, and Kubernetes namespaces.
- Architected edge computing and IoT infrastructure proofs-of-concept incorporating lightweight K3s orchestration, Raspberry Pi deployment targets, and secure communication baselines.
- Designed Large Language Model (LLM) environments, engineering Retrieval-Augmented Generation (RAG) paradigms using advanced vector datastores, document chunking mechanics, word embeddings, and cosine similarity lookup APIs.
- Developed comprehensive automated infrastructure validation suites utilizing Python (Boto3), Ansible, and Terraform to guarantee deterministic rollouts and active state verification.

Wipro — Technical Lead for DevOps/SRE/Infrastructure Automation

Oct 2023 - Jan 2024

- Served as the primary technical decision-maker governing site reliability engineering operations and custom automated deployments across scaled Linux Administration server farms.
- Orchestrated structural maintenance, tuning, and cluster diagnostic mechanisms on enterprise Hadoop big data infrastructure, stabilizing data pipelines under intensive throughput stress.
- Built high-fidelity automation routines utilizing complex Ansible playbooks, specialized Python scripts, and integrated Jenkins pipelines to drive deterministic deployment of stateful Kubernetes pods and container tasks.

Independent Enterprise Consultant — Cloud, Linux Infrastructure & DevSecOps

June 2022 - Oct 2023

- Contracted directly with corporate entities to resolve challenging multi-disciplinary technical issues across complex Linux Administration infrastructure, public AWS landscapes, and comprehensive penetration testing regimes.
- Architected and executed an end-to-end KVM and OpenStack private cloud environment, custom-configured to support specialized bare-metal GPU clustering for deep neural network training.
- Programmed advanced multi-layered deep learning models utilizing TensorFlow, Keras, and PyTorch, optimizing parallel processing paths via native NVIDIA CUDA library tuning.

Zummit Infolabs — Advanced Data Science & Machine Learning Intern

Jan 2022 - May 2022

- Conducted mathematical modeling and statistical research across advanced machine learning algorithms, covering PCA dimensionality reductions, standardizations, SVMs, CNNs, and LSTM/RNN time-series models.
- Built an end-to-end computer vision and object detection architecture utilizing YOLOv5, PyTorch, Dlib, and OpenCV to support production-grade facial recognition, currency validation, and multi-font text extraction.
- Integrated deep learning execution frameworks into lightweight, highly performant APIs via FastAPI, deploying solutions on GPU-accelerated AWS Ubuntu server instances.

Rocket Software — SDET III (Kernel Diagnostics, Linux Distribution & OpenStack Cloud)

Oct 2019 - Nov 2021

- Directed deep-level operating system testing and Puppet & Ansible configuration management for proprietary enterprise Linux distributions, managing kernel-space stability using the Linux Test Project (LTP) test suite.
- Designed, fixed, and implemented the ABAT System: an entirely custom cloud platform built from scratch on bare-metal, OpenStack cloud architectures, and KVM hypervisors to automate OS tarball evaluations.
- Wrote custom system-level test harnesses using C, Python, Bash, PHP, Expect, and Perl to orchestrate automated bare-metal deployments, network adjustments, and structural validation.
- Executed advanced IPv6 protocol compliance and functional matrix reviews utilizing the TAHI validation test suite over FreeBSD platforms.
- Conducted web-application penetration testing against the core Internal Cloud Portal (Node.js & MongoDB) and security-tested Snort IDS installations using Metasploit, Scapy, Nemesis, and Nmap.

Flextrade — Senior System Administrator & Infrastructure Architect

Aug 2016 - Sept 2019

- Managed core architecture execution, cross-platform migrations, performance monitoring, Ansible and Puppet configuration management, and aggressive host machine consolidation across complex Linux, VMware ESXi, OpenStack, and AWS landscapes.
- Designed custom high-efficiency systems for High-Frequency Trading (HFT) environments, tuning Linux kernel execution parameters, optimizing storage layer latencies, and refining shared library execution.

Infinity Labs — Enterprise System Administrator

Dec 2015 – Aug 2016

- Deployed highly resilient Linux systems and cloud-scale infrastructures for telecom environments utilizing Ansible, Chef, and Puppet orchestration suites.
- Architected and implemented a high-priority proof-of-concept for Telecom Malaysia (on behalf of Cisco), nesting Cisco CSR 1000v virtual routers inside RHEL KVM hypervisors utilizing OpenVswitch overlays.

Infostretch Corporation — SRE & Linux Systems Administrator

Aug 2015 – Dec 2015

- Managed core provisioning, proactive health monitoring, and system optimization routines for high-density Linux server matrices deployed over Dimension Data cloud frameworks.
- Built an enterprise centralized authentication mechanism by implementing a 389-ds multi-master LDAP directory replication structure secured via end-to-end SSL encryption.

Infosys Limited — Technology Analyst

Oct 2014 – Apr 2015

- Managed corporate data center environments, performing bare-metal hardware orchestration via HP iLO systems and hypervisor configurations on VMware ESXi platforms.

- Arista Technologies — Junior PHP Programmer & Linux Administrator**

Nov 2012 – Oct 2013

 - Developed core web applications using PHP, MySQL, Joomla, and Magento, while managing corporate Ubuntu and CentOS server environments.
- Antriksh Communications — Network Engineer & Systems Programmer**

June 2005 – May 2006

 - Built secure proxy systems via Squid, implementing strict IP-based, time-based, and domain-restricted access controls for corporate clients.
 - Delivered corporate and institutional Linux training programs for professional organizations and academic bodies, including DAIICT and the Indian Air Force.

ARCHITECTURAL PROOFS-OF-CONCEPT & OPEN-SOURCE PROJECTS

AWS EKS, Terraform, Helm & Consul Service Mesh Integration
[github.com/amitdhanani2012/Terraform-eks-consul-helm-aws-amit](#)
Developed a comprehensive, production-ready repository demonstrating automated provisioning of highly available AWS EKS clusters using Terraform. Integrates HashiCorp Consul Service Mesh via Helm charts, configuring end-to-end mutual TLS (mTLS), custom storage classes via the AWS EBS CSI driver, and automated node-group scaling.

"Panel Solution" System Administration Framework
Engineered a comprehensive web-based graphical management framework designed for autonomous Linux system administration. Written in core PHP and Bash shell scripts, it allows administrators to safely perform complex operations via sudoer configurations.

AWS ECS WordPress Container Infrastructure with S3 Media Offload
[github.com/amitdhanani2012/ecs-wordpress-terraform-poc](#)
Designed a highly resilient, containerized web cluster using AWS ECS Fargate, managed entirely via Terraform. The architecture separates stateful storage by offloading media assets to encrypted AWS S3 buckets.

ACADEMIC PROFILE & CREDENTIALS

Degree / Credentials	Institution / Board	Timeline	Performance
Bachelor of Computer Engineering	Sardar Vallabhbhai Patel Institute of Technology, Gujarat University	2002 – 2005	57.78%
Diploma in Computer Engineering	B & B Institute of Technology, Technical Examination Board	1999 – 2002	77.54%
Higher Secondary Certificate (HSC)	DCC Vividh Lakshi High School, Jamnagar	March 1999	64.15%

PROFESSIONAL CERTIFICATIONS & PERSONAL CREED

Brainbench International Certifications: Successfully challenged and passed 23 comprehensive technical certifications covering systems administration, programming logic, and network architecture (Transcript Security ID: 2655410).

"I view Information Technology as my defining intellectual passion; compensation remains an essential byproduct of rigorous execution. I operate under an unyielding model of professional commitment, absolute transparency, exhaustive technical documentation, and total system ownership..."