Dhrumil Patel

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EDUCATION

DAIICT   Gandhinagar, Gujarat
Bachelor of Technology in ICT   *Aug. 2016 – May 2020 (CPI - 8.29)*

Sardar Patel Education Institute, Gujarat   Bhavanagar, Gujarat
Intermediate/+2   *Aug. 2014 – May 2016 (Aggregate - 91.23%)*

EXPERIENCE

DevSecOps II   Oct, 2022 – Present
Acko Technology And Services Private Limited   *Bengaluru, Karnataka*

- Setup SIEM monitoring using Wazuh and Falco for container, Kubernetes security, fortifying setups and ensuring robust digital defense.
- Develop comprehensive vulnerability tracker management system, and a sophisticated report generator. Built using Django, Postgres, Jinja2 etc, it automates data aggregation and analysis, presenting detailed insights.
- Create DevSecOps pipeline using OWASP ZAP for dynamic application security testing, SonarQube for code quality analysis, and Dependency Tracker to manage and audit software dependencies.
- I conducted an internal Penetration Testing of our frontend and API services. The assessment identified multiple security issues that were promptly reported and resolved by the development team.

DevOps II   May. 2022 – Sep, 2022
Acko Technology And Services Private Limited   *Bengaluru, Karnataka*

- Designed CI/CD template leverages Jenkins and GitHub Actions for seamless builds, tests, and integration. With Argo CD's continuous deployment.
- Explore Hashicorp Consul's power, fortified with proven security mechanisms and advanced deployment strategies. Elevate microservices with seamless scalability, reliability, and enhanced security in your architecture.
- Experienced of AWS Control Tower to establish centralized governance across all member accounts. Simplify account provisioning, security, and compliance, ensuring seamless management and scalability for your AWS infrastructure.

DevOps I   July. 2020 – April, 2022
Acko Technology And Services Private Limited   *Bengaluru, Karnataka*

- Took a key role in setting up a Kubernetes cluster in AWS Elastic Kubernetes Service (EKS). Additionally, focused on implementing monitoring and logging solutions for both the Kubernetes cluster and the applications running within it.
- Led the development of a DevOps-enabled Kubernetes Helm chart from scratch, specifically designed for deploying microservices within the company's cluster. Chart used to migrated Beanstalk application to Kubernetes, and onboard new microservices in kubernetes.
- Implemented Kong API gateway in a high-availability (HA) configuration within Kubernetes, ensuring seamless and reliable management of API traffic and services. Implemented a proxy configuration update pipeline for the Kong API Gateway using Terraform and Jenkins, ensuring reliability and security.
- Designed and led the development of a Universal Monitoring Dashboard's frontend, creating an aggregated platform to monitor alerts from various sources including AWS CloudWatch, New Relic, Prometheus, Elasticsearch, Site24x7, and more.
- Experienced in configuring AWS network firewalls using Terraform, effectively securing and optimizing network infrastructure. And deploying and managing AWS security tools like Security Hub, GuardDuty, Config, CloudTrail, and Macie.

DevOps Intern   Jan, 2020 – Jun, 2020
Acko Technology And Services Private Limited   *Bengaluru, Karnataka*

- Worked on multiple automation like AMI backup, IAM key rotation, Stop instance notification, SG alerts etc using boto3(python). It reduce manual affort and increase team productivity.

Research Publication

Automatic Generation of Compact Printable Shellcodes for x86   Aug 2020
- Implemented new encoding scheme and a companion tool to generate compact printable shellcode.
  WOOT'20, Usenix Association

Technical Skills

Expertise Area/Area of interest: DevOps, Cloud Computing, Infrastructure As Code, Site Reliability, Networking, Container Orchestration, Cryptography, Cloud Security, Binary Exploitation
Languages: Python, C/C++, Go, Bash, SQL (Postgres)
Tools/Technologies: Terraform, Kubernetes, Docker, Ansible, Helm, Jenkins, Kong API gateway, Postgres, Prometheus, Grafana, EFK, Newrelic, ArgoCD, Github Action etc
AWS Tools: EC2, ELB, IAM, S3, EKS, RDS, VPC, CloudTrail, SecurityHub, Cloudwatch, SQS, DynamoDB, Lambda, Step Function, API Gateway etc