# NIHARIKA NUTALAPATI

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## PROFESSIONAL EXPERIENCE

### Senior Cloud Security Engineer
**Verizon Data Services Pvt Ltd.**

📅 Dec 2021 – Present             📍 Bengaluru, India

- Primary responsibility is to create automated security scripts, ScoreCards and Auto-remediations, across multiple public clouds(AWS, GCP) using Python, which helps in remediating the vulnerable resources immediately and notifying the user and also to keep track of metrics by sending the data to the Postgres DB which reduces the risk by 90%.
- Migrated the Visualization dashboards from Tableau to Looker Instance, using LookML, which clearly shows the view of the compliance and insightful vulnerability metrics of the cloud services.
- Working on CFN-NAG(AWS Cloud-Formation template scanner) migration to the AWS EKS (Elastic Kubernetes Service) which helps us to maintain the docker container in an organized way, compatible to the standards and makes it easy for re-hydration of the service.
- To secure our internal AWS APIs, we use the 42 crunch tool, which will keep track of the vulnerabilities exposed by the APIs. I immensely worked on onboarding the APIs in the tool which runs static and dynamic scans against the APIs to mitigate the risk and increase the score to 81%.

### Systems Engineer
**Infosys Ltd.**

📅 Sep 2019 – Dec 2021             📍 Bengaluru, India

- Developed and Automated Google Cloud Platform (GCP) services like Cloud compute, storage, BigQuery, CDN (Content Delivery Network), VPN (Virtual Private Network), Cloud SQL (Postgres) and Cloud Functions to Auto-start and shut down of VM's using REST APIs in Python Flask which optimized 80% manual working on the services.
- Integrated APIs of cost advisor AMD machine types instead of intel for the compute resources in GCP to lower the usage cost by 60%
- Monitored the Risks and vulnerabilities of cloud resources from an integrated tool, Qualys to keep track of the cloud resources and used Qualys APIs to handle them in automated way from the local server.
- Worked on cloning and uploading the repositories and files to version control systems(GIT) programmatically using Personal Access Token(PAT) and SSH Keys.

### Systems Engineer Trainee
**Infosys Ltd.**

📅 Jan 2019 – May 2019             📍 Mysore, India

- Worked on Object-oriented programming and DSA(Data structures and algorithms) fundamentals using python.
- Built a Customer based web portal using .net with C-Sharp for back-end and Angularjs for the front-end development.
- Worked on Database Management Systems with MySQL on Microsoft SQL server to operate the databases.

## EDUCATION

### BTech - *Computer Science Engineer*
**Vignan's Institute of Information Technology**

📅 June 2015–May2019

Grade: **69.14**%

## SKILLS

- **Google Cloud, AWS**
- **Python, Flask, REST API's**
- **Looker, LookML**
- **Docker(Beginner), Elastic Kubernetes**
- **MySQL, PGSQL**
- **CFN-NAG, Version Control, 42 crunch**

## AWARDS/HONORS

- **Above and Beyond** - With no knowledge on visualization tools, I learned and migrated around 200 dashboards from Tableau to Looker within 4 months.
- **Simple Thanks** - Helped other teams by collaborating and sharing my knowledge on tools and guiding them.

## CERTIFICATIONS

- Aquired **Certified in CyberSecurity from ISC2** Certification.
- Gained **Google Cloud Professional Security Engineer** Certification.
- Cracked **Google Associate Cloud Engineer**Certification.
- Awarded with **MySQL** certification in Hackerrank.
- Won **Python Programming** badge and certification from Hackerrank.

## PROJECTS

### 42 Crunch
- Onboarded around 25 AWS APIs onto the 42 crunch tool to mitigate the possibility of risk and keep track of the score above 70% which ensures the API is healthy and risk-free.

### CFN-NAG migration
- Tool which validates Cloud Formation Template, is migrated from normal EC2 architecture to the AWS Elastic Kubernetes(EKS) and reduced the maintenance by 80

### Looker Migration
- Migrated all the reports from Tableau to Looker for better and easy to represent the data as per the management direction.

### OneStop Portal
- Created backend API's as services in LINUX OS for the OneStop web application portal which helps in managing the GCP resources by CRUD operations.

### Online UNO game
- created and structured a web-based UNO game that is flexible to use on all electronic devices to make the UI easily accessible and intelligible.

### Anomaly Intrusion Detection system
- Built Support Vector Machine Technique (SVM) to act as a burglar alarm, predicting and detecting intruder attacks on server data users.
- Monitors traffic flow and aids information systems in dealing with intruder attacks.