

# PRAKHAR GOEL

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## Education

### JSS Academy of Technical Education

Bachelor of Technology in Computer Science

2020 – 2024

Noida, Uttar Pradesh

### SR DAV Public School

12th Grade Science

2018 – 2020

Dayanand Vihar, Delhi

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- OOPS
- Software Methodology
- Database Management
- Internet Technology
- Operating Systems

## Experience

### SecLogic

August 2024 – Present

Associate, Cloud Security Analyst

Noida, Uttar Pradesh

- Built a **Python**-based **Docker** image scanning system with a lightweight **Flask** server hosted on **EC2**, designed to receive scan payloads and trigger vulnerability and secret scans on container images in **ECR/Artifact Registry**.
- Used **Terraform** to provision infrastructure with startup scripts that auto-pull the Docker image (containing the Python + Flask code) from internal **Artifact Registry**, execute scans, and upload results to a secured **Cloud Storage Bucket**.
- Implemented **VPC-level network controls** to restrict external access, ensuring only internal organizational traffic could reach the Flask API endpoint.
- Refactored codebase into a **cloud-agnostic** system supporting **AWS** and **GCP** using **Python3**, consolidating repositories and cutting maintenance overhead by **40%**.
- Enhanced security by integrating **ClamAV** for malware scanning, boosting detection rates by **65%** and reducing false positives by **30%**.
- Modified a popular open-source **Kubernetes vulnerability scanning tool** written in **Go** to extract **container image layer metadata** and detect embedded **secrets**, enhancing its security audit capabilities.
- Developed a **cloud-agnostic Python script** leveraging the **Kubernetes API** to fetch **pod logs** from the last *N* **hours** (user-defined) across dynamic **namespaces** in both **AWS** and **GCP** environments.
- Automated the upload of fetched logs to the respective **Cloud Storage Buckets (S3/GCS)** for centralized log management and monitoring.
- Built a dynamic **GitLab CI/CD pipeline** for dependency automation and binary packaging to **GCP bucket**, reducing deployment time by **30%**.
- Upgraded **GitLab pipeline** for multi-project compatibility with dynamic endpoints (**main, develop**), enhancing cross-project reusability.

## Projects

### Alan AI News Application | *React.js, NLP, JavaScript*

August 2024

- Designed a **front-end** interface with **React.js** and **JavaScript**, integrating **Alan AI** for voice navigation with **95%** command accuracy.
- Created a lightweight **back-end** service with **Python** to fetch multi-source news data, improving content delivery speed by **90%**.

### Social Blog Website | *HTML, CSS, Bootstrap, Flask, SQLite*

July 2024

- Built a responsive **front-end** using **HTML**, **CSS**, and **Bootstrap**, boosting user engagement by **25%** across devices.
- Engineered a **full-stack** solution with **Flask** and **SQLite**, optimizing **database queries** for **95%** data consistency.

## Technical Skills

**Languages:** Python, C++, C, JavaScript, SQL, HTML, CSS, Terraform, YAML, Golang

**Cloud & DevOps:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Docker, Kubernetes

**Technologies/Frameworks:** React.js, Flask, Bootstrap, Streamlit, IAM, Event-Driven Architecture, Microservices

**Databases:** MySQL, MongoDB, SQLite, PostgreSQL, Pinecone, ChromaDB

**Tools:** VS Code, Git, Terraform, Linux, Shell Scripting, Langchain, ClamAV, Pub/Sub, SQS, Lambda

## Honors and Certificates

- Solved more than **700+** questions on LeetCode and GeeksForGeeks combined.
- Completed iNeuron Certified Foundational Generative AI course.
- Completed Goldman Sachs Certified FinTech Engineering Virtual Experience (Forage).
- Completed Udemy Certified Python and Flask Bootcamp: Create Websites using Flask.