

# Prasanna Thapa

Member Technical Staff



Sep 2021 - Present

2+ years



## Contact

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## Education

B.Tech CSE 2018-2022 9.41 CGPA  
West Bengal University of  
Technology

Class 12 2018 84.2%  
Class 10 2016 9.60 CGPA  
Kendriya Vidyalaya Sevoke Road



## Internships



13 Sep, 2021 to 6 July, 2022

- Added support for SMS, Email, Duo, Radius, Google and RSA Two factor auth in Manage Engine's Cloud Security Plus
- Created Trial Feature for Advanced Threat Analytics in Log360 Cloud



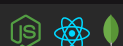
5 May to 13 Sep, 2021

- Implemented caching in frontend and segmented data loading for faster load times, thumbnail generator service, pretrained ML image classification
- Added Multi file and folder upload feature with progress tracking and vulnerability fixes.



## Projects

GradeCard Analyzer



Foxy Tales



Wishes



## Current Tech Stack



## Work

Q4 2023



### File Based Criteria in Alert Logs Processing

Designed a criteria-matching system capable of processing **billions of logs daily each with millions of values** within an alert processing pipeline. It scans logs for values matching those in user-uploaded files. Utilizing ANTLR, the matching criteria can be dynamically combined and evaluated through a **criteria expression tree**. Primary **LFU cache**, **Bloom Filter** with secondary false positive cache and an external **Redis** storage to access files data uploaded to **Distributed File System** was implemented to achieve this

Q2 2023



### Integrating Dark web, Botnet Feeds and Cloud Security Intelligence Data

Implemented the logic for integrating our products with **Dark web** and **Botnet Data** Leak monitoring capabilities supplied from third party vendors and Cloud Security Intelligence data for our Cloud access security broker product. These feeds will stored in **Elastic Search**, **Redis**, **SQL** based on the nature of data and will be further be used for data **correlation**, reports and alerts

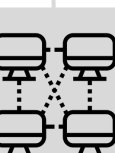
Q2 2023



### Automatic Log Source Configuration based on Active Directory Changes

Implemented feature for automatic configuration of windows devices in **Active Directory** or **Workgroup** to our **SIEM** Products (add, enable, disable, remove) based on AD events (device created, enabled removed etc) or OU/Group filters. The configured devices will be associated across the remote log collection agents in a **load balanced way**

Q4-2022



### Remote Agent Threat Feed delivery optimisation

Designed **local peer-to-peer** threat feed updates sharing architecture, for native windows log collecting agents. Based on the lowest reachable agent ID will become the master (**master-slave architecture**) and will redistribute the updates taken the server to all the connected agents in the LAN.

## Certifications & Achievements



Certified Software Programmer  
& specialist programmer offer



Best Rating: 5 Star ★★★★★  
Best Global Rank: 4423 in 2.7Lakh



Season 9 (2020)  
Rank: 91 out of 1.8 Lakh

Infosys Certification



Competitive Coding Platform



TCS's annual coding contest

