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Prasanna Thapa

Member Technical Staff



Sep 2021 - Present

2+ years



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

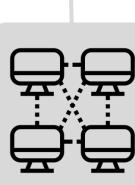
Q2 2023



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