MICHIGAN STATE UNIVERSITY

Alpha Presentation
Open Source Intel

The Capstone Experience

Team GM

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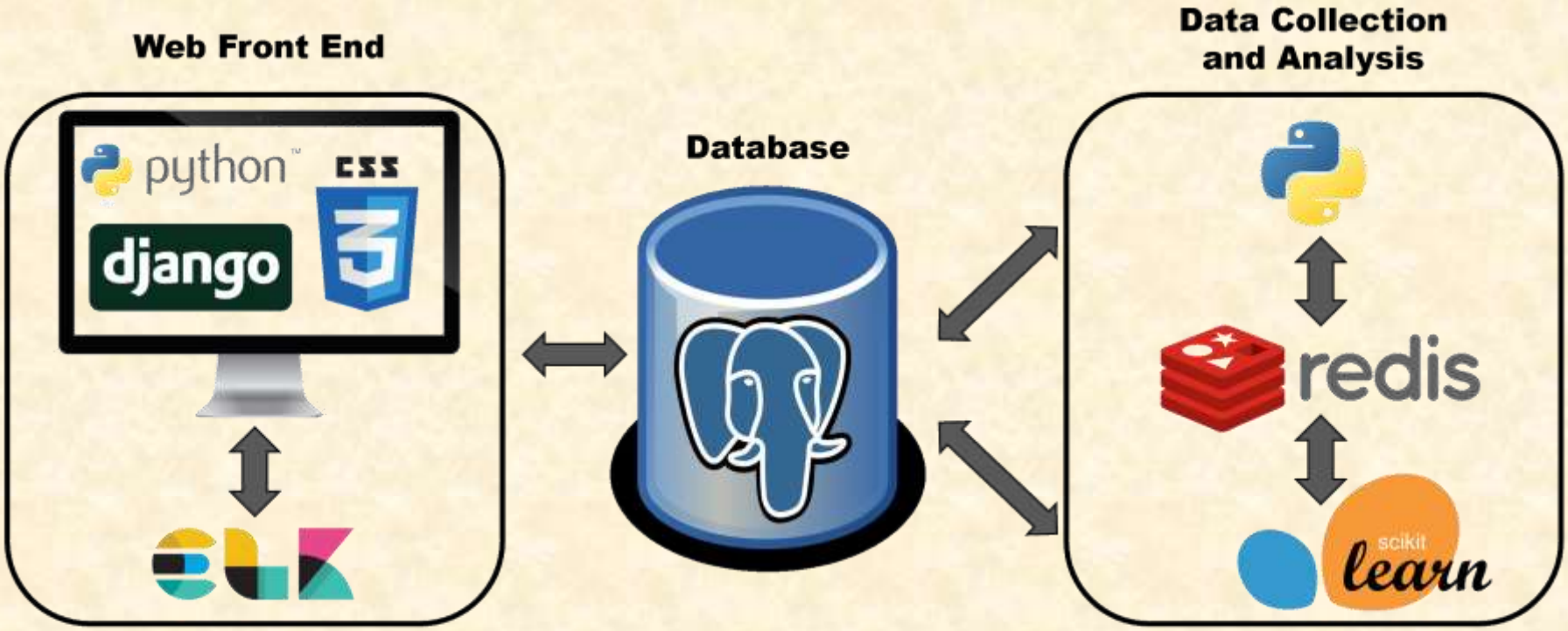
From Students…
…to Professionals

Project Overview

- Scan public repositories such as GitHub, PasteBin, BitBucket for leaked GM intellectual property.
- Assign a confidence rating to a leak with machine learning.
- Display the leaks and a URL to the leak in a web application frontend.

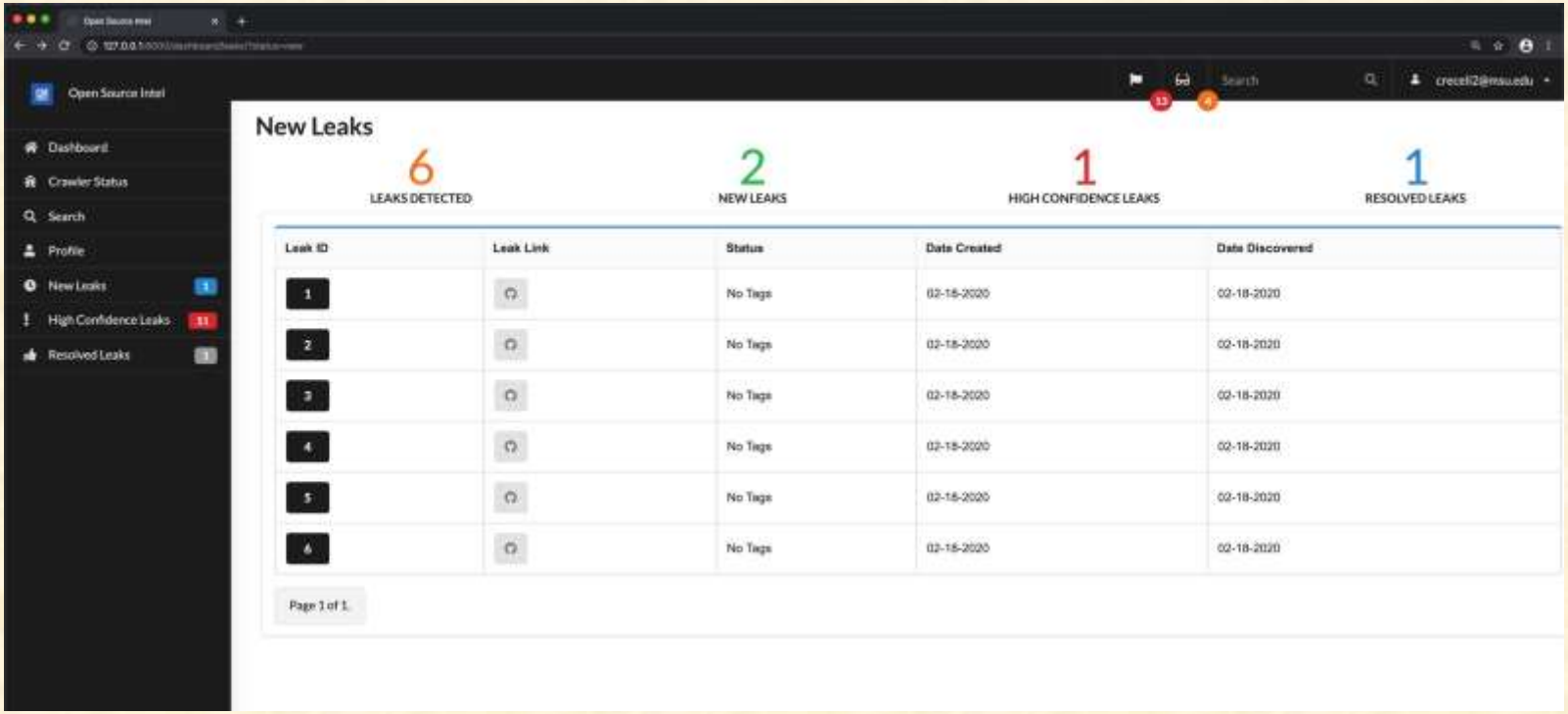
System Architecture



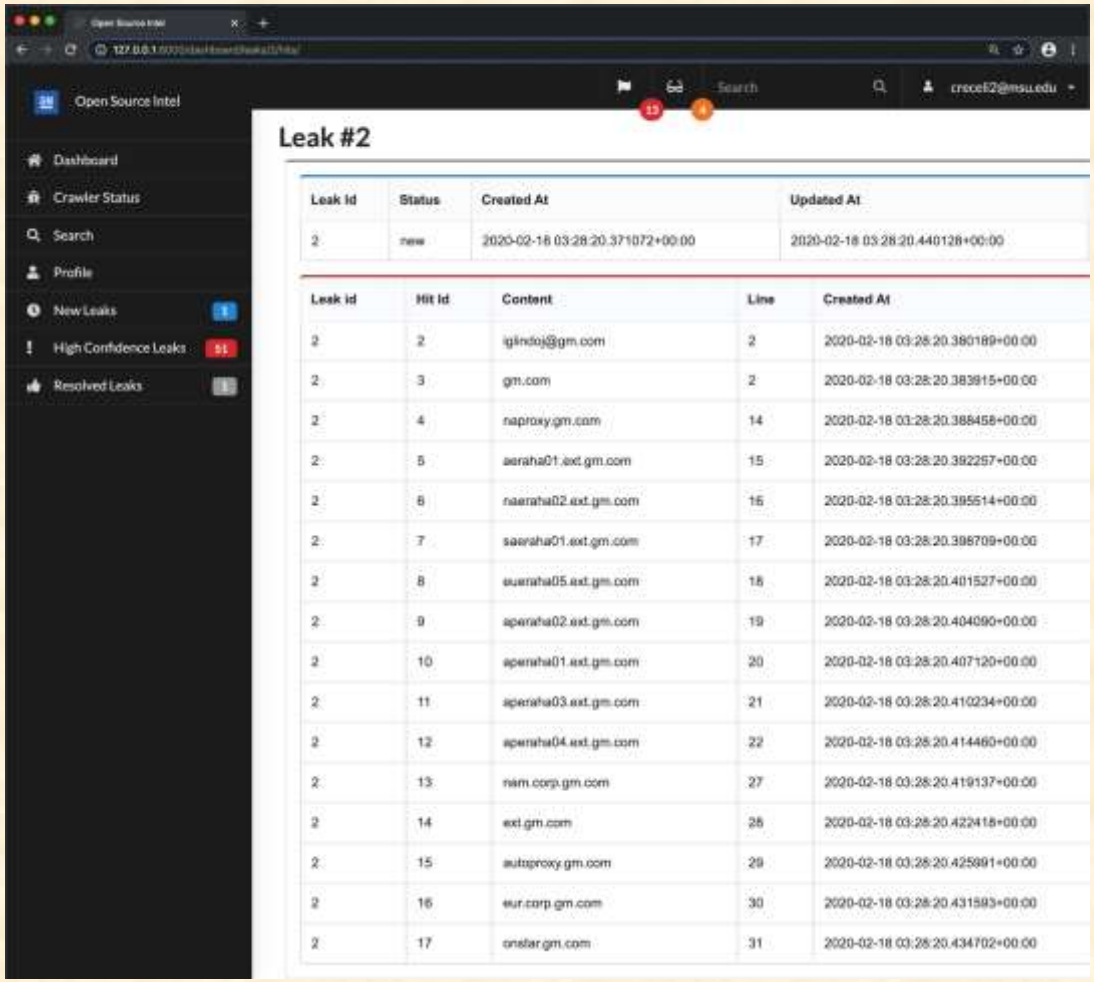
Dashboard


Dashboard
22
2.3 MILLION
1231
123
Leak Breakdown by Type
Leaks Discovered over Time

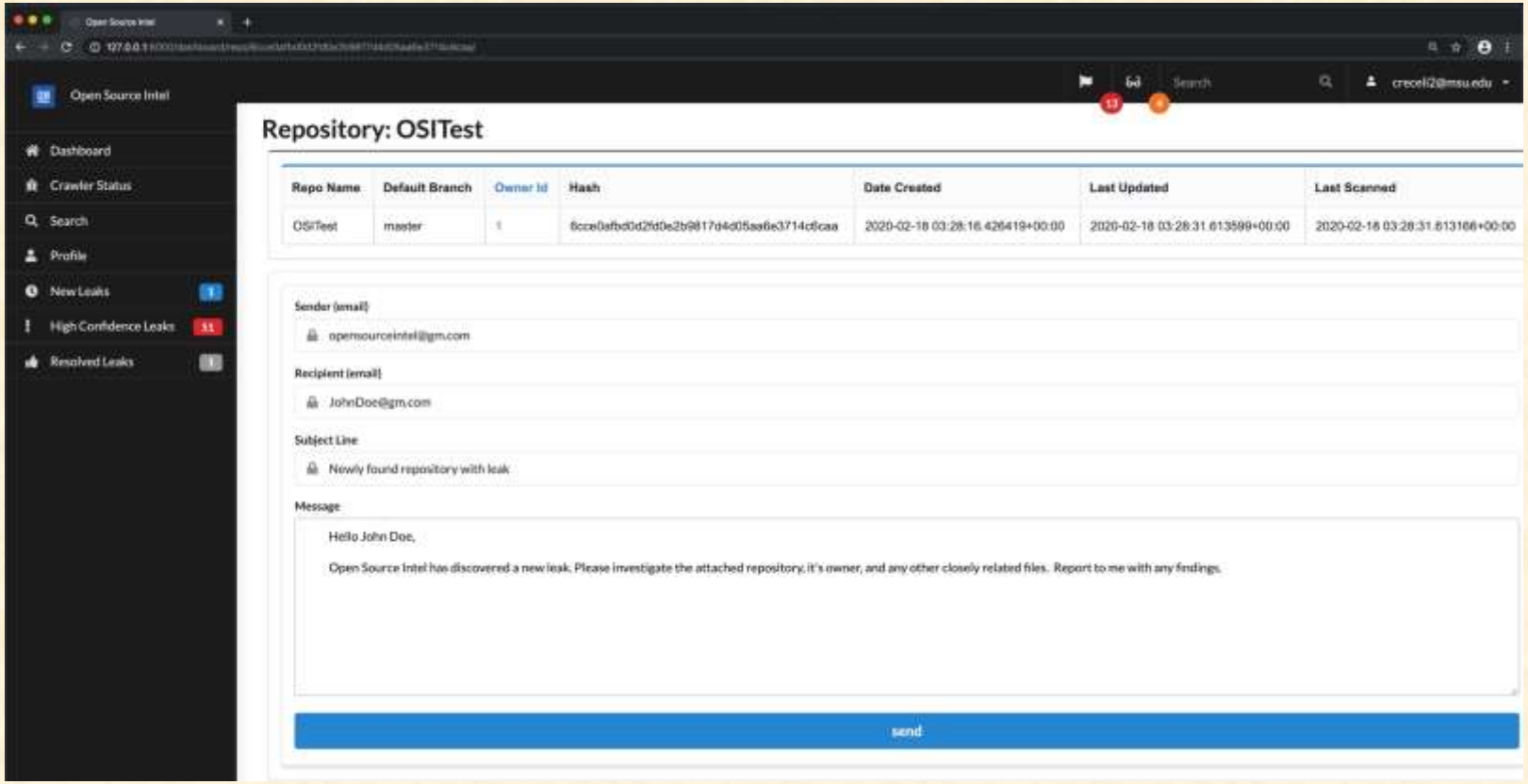
Leaks Page


Open Source Intel
Search
New Leaks
6
LEAKS DETECTED
2
NEW LEAKS
1
HIGH CONFIDENCE LEAKS
1
RESOLVED LEAKS
Dashboard
Crawler Status
Search
Profile
New Leaks
High Confidence Leaks
Resolved Leaks
Leak ID
Leak Link
Status
Date Created
Date Discovered
No Tags
02-18-2020
Page 1 of 1.

Single Leak Page



Repository Page



What's left to do?

- Scan and collect data from other public web open source hosts (BitBucket, PasteBin, etc.)
- Continue training and finetuning the machine learning module.
- Implement notification system and inter-user communication.

Questions?