

MICHIGAN STATE

UNIVERSITY

Alpha Presentation

Evo Observability Platform

The Capstone Experience

Team Evolutio

Abhinay Devapatla

Haoxiang Zhang

Max Resch

Spandan Chatterjee

Tyler Triplett

Department of Computer Science and Engineering
Michigan State University

Fall 2023



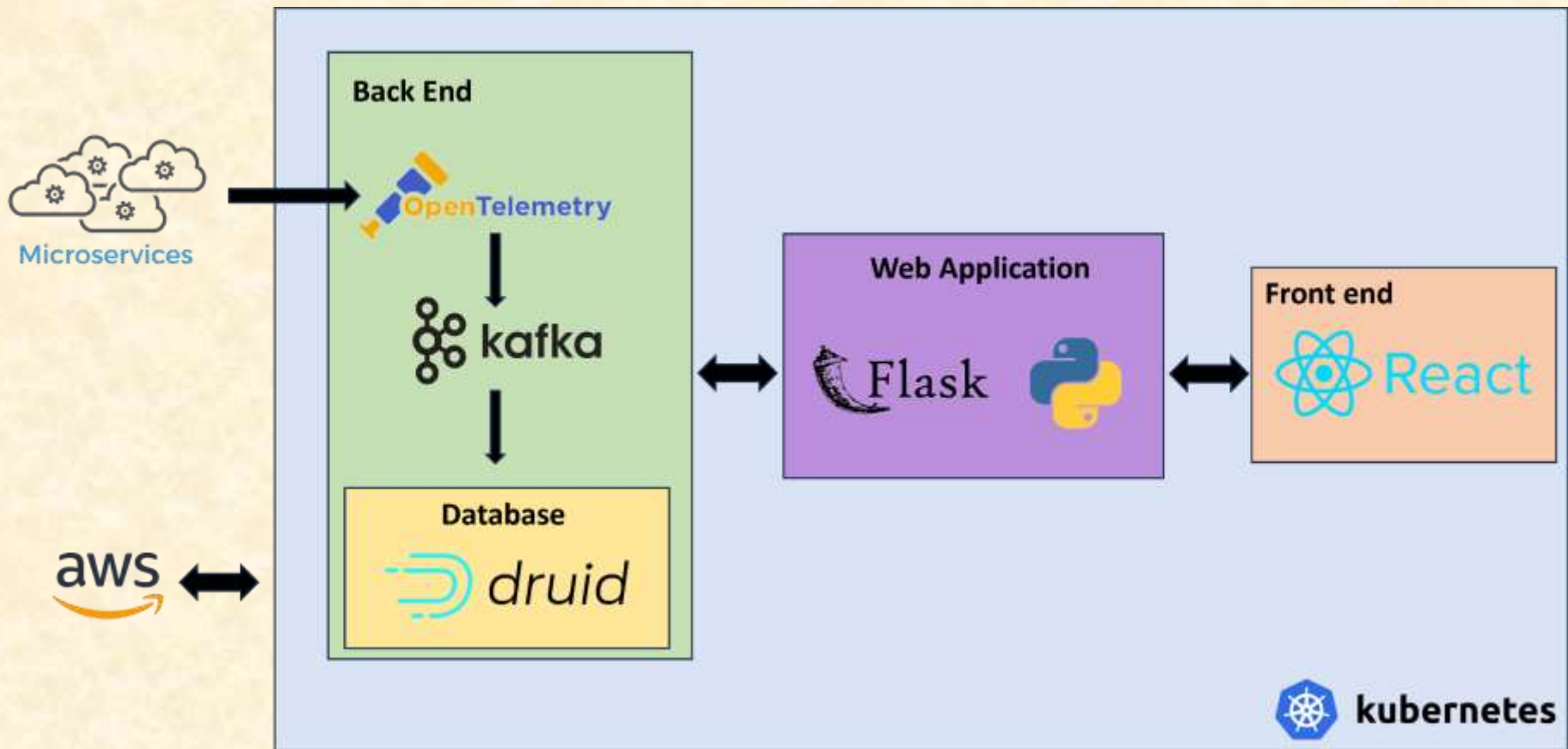
*From Students...
...to Professionals*

Project Overview

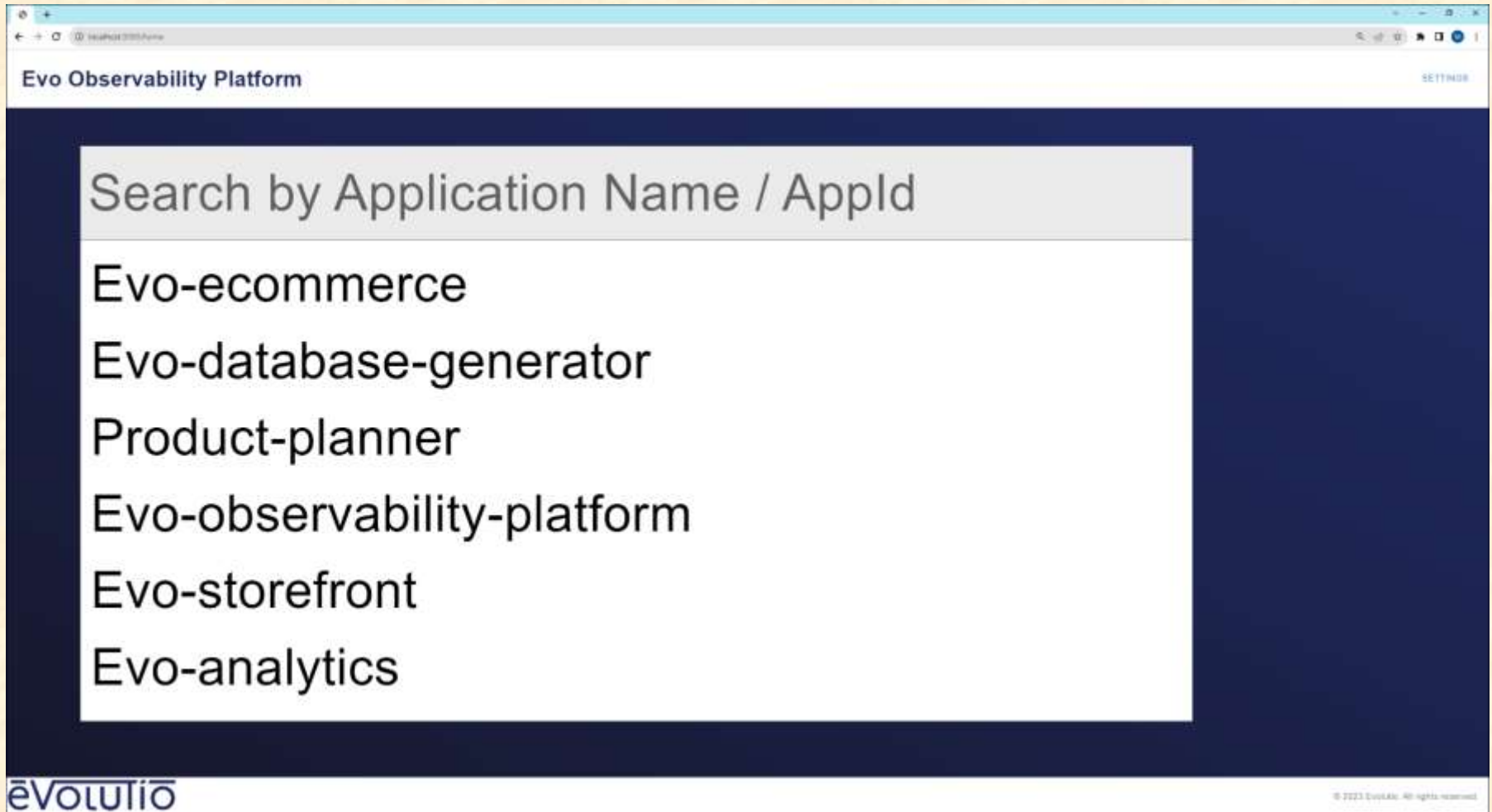
- Utilize existing Observability tools to develop a robust & scalable APM software
- Provide system administrators with visibility
 - Application dashboards
 - Dependency mapping
- Analyze and log application behavior
 - Error and exception tracking
 - Alerting and notification



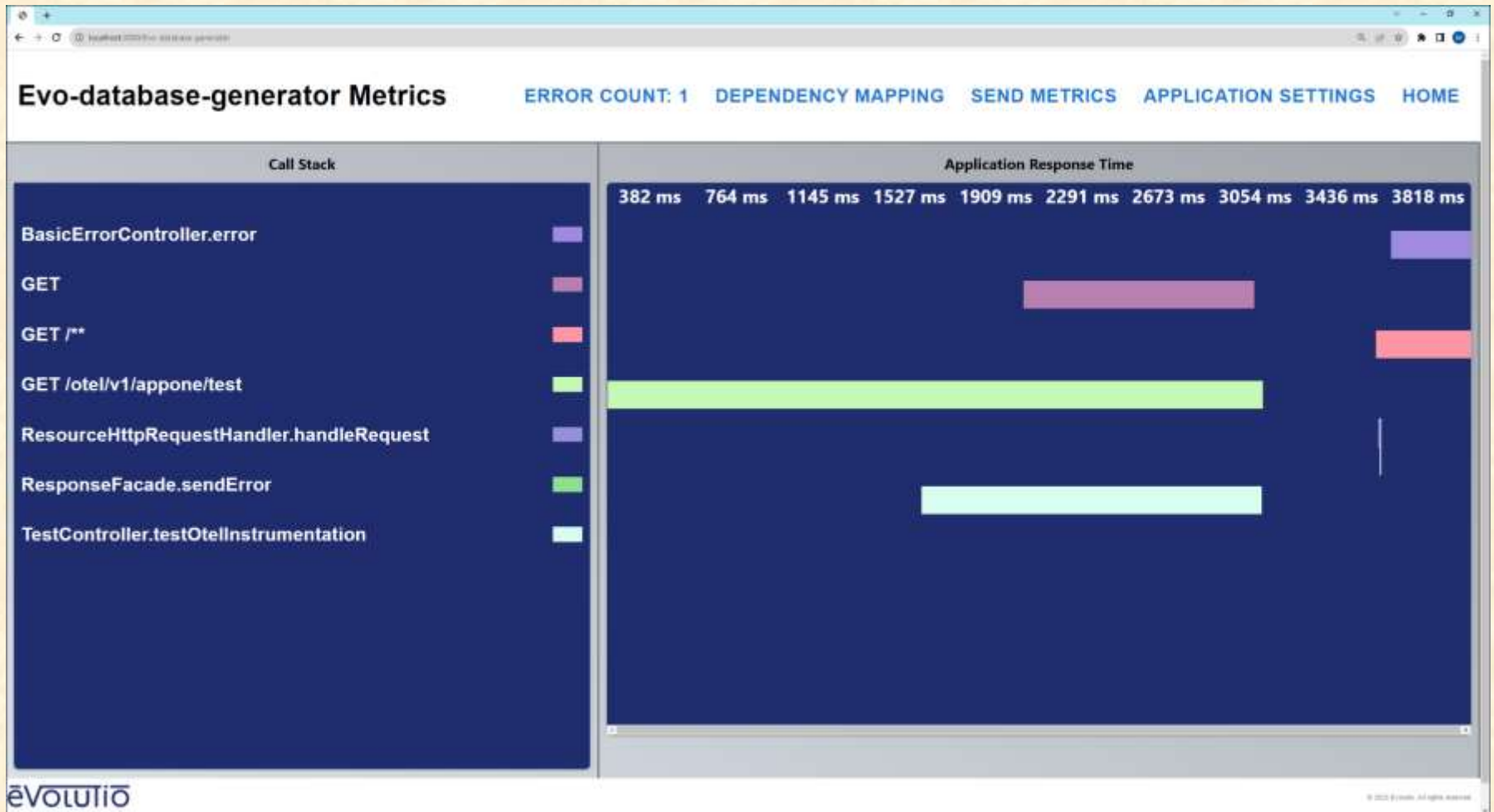
System Architecture



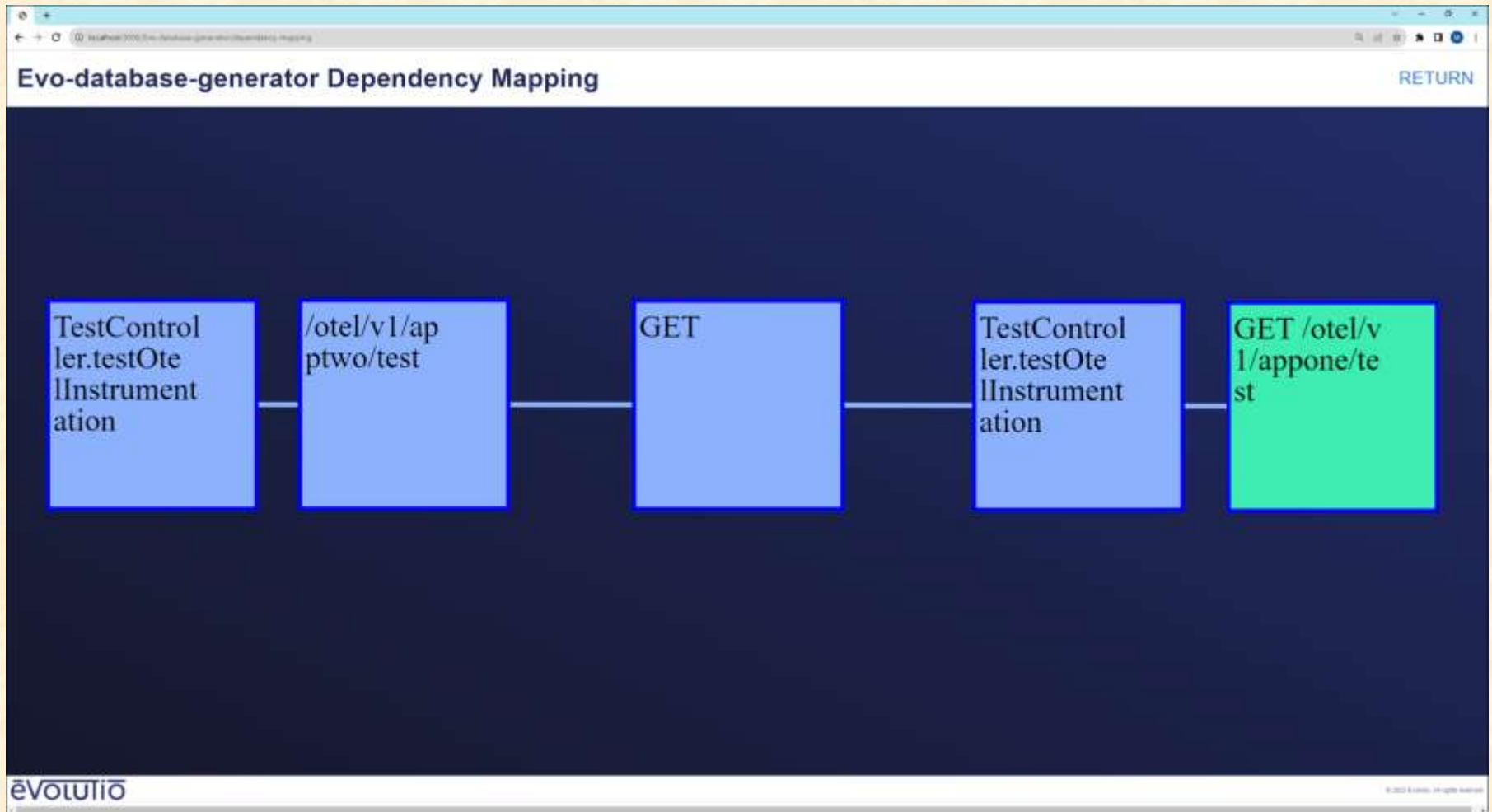
Home Screen



Application Dashboard



Dependency Mapping



Application-Specific Settings

React App - Chromium
http://localhost:3000/Evo-database-generator/application-settings

Evo-database-generator Settings

RETURN

How much variation is required for a notification to be sent?

LOW MODERATE HIGH SAVE

Customize alert messages:

Metrics

CAN CHANGE	Static Text
------------	-------------

Save

Logs

Traces

Errors

ēVolutio

© 2023 Evolutio. All rights reserved.



What's left to do?

- Data streaming using Apache Kafka
- Displaying surface metrics on dashboard
- Setting up alert notification thresholds
- Configuring a Kubernetes cluster
- Deploying our application on AWS



Questions?

?

?

?

?

?

?

?

?

?

