Professional Portfolio

5 Everbridge products created by James Priest

1. Location Risk Assessment

Overview

This SaaS application allows customers to construct risk assessment dashboards and reports for any location based on a selected set of factors.

It features geo-location, auto-complete location search, boundary drawing controls, and a host of other configurable options.

Project Requirements

Build a mapping tool capable of plotting a variety of risk events. Risk Events must be filterable by categories such as Crime, Weather, Disaster, Transportation, etc.

Create an intuitive UI that indicates available functions and provides a high level of affordance.

The application must be modular and use custom built REST API endpoints to query Everbridge's various data sources.

Technologies Used

Frontend	React, TypeScript, Ant Design, Redux, Looker Embed SDK, React Router, Google Map, Bing Maps, Open Street Maps, IndexDB
REST API	Java, Spring Boot, Looker API, Places API
Backend	Amazon OpenSearch (Elasticsearch), Snowflake, MongoDB, Looker, LookML.

Mapping Application

Figure 1 – Map with overlay controls.

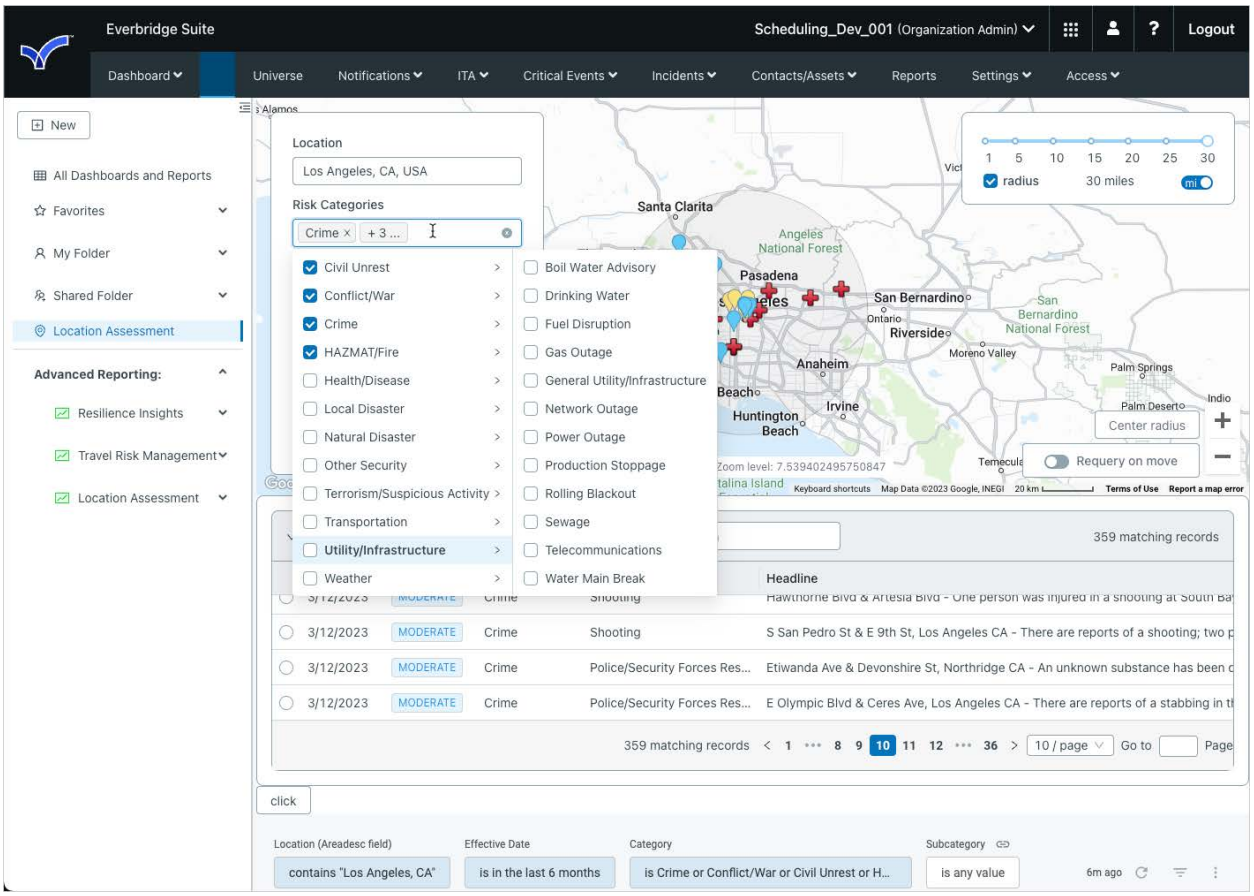

Figure 2 – Expanded view of Nav, Map, Tabular data, and Selection controls.

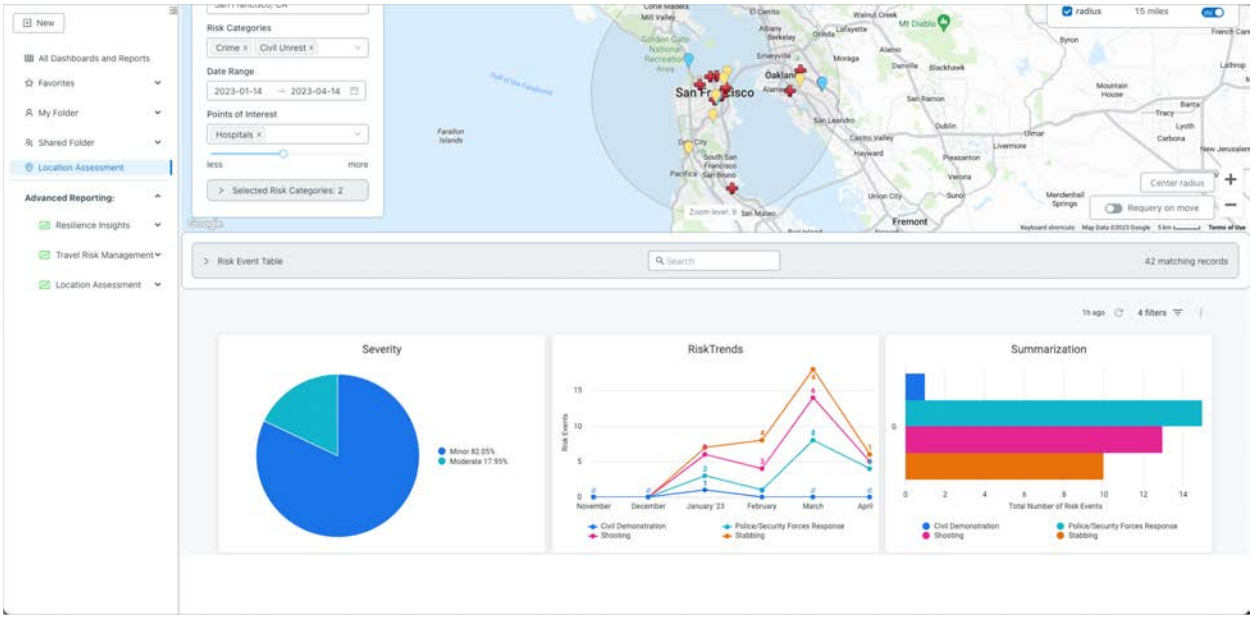

Figure 3 – Visualization tiles displaying context-aware data filtered by selected area on map.

2. EB Suite Usage Reporting

Overview

Usage Reporting was designed to provide near real-time reporting to customers on their usage consumption of Everbridge credits.

Project Requirements

Build a clean and simple interface for users to quickly understand and gage their usage consumption. Provide interactive and historical view of usage over various subscription periods.

Solution

Worked with customers, finance department, and account owners to determine most useful set of information to display.

Created a series of custom-built React components that could be used across a variety of dashboards and reports.

Provided series of charts and visualizations to allow customers to easily gauge their usage. Included forecasting, historical usage, and low balance notification for account billing.

Designed API endpoints for efficiency and reuse amongst various dashboards and components.

Technologies Used

Frontend	React, TypeScript, Ant Design, Recharts, Module Federation, React Query, Looker Embed SDK, React Router, Styled Components, Lodash, and Webpack.
REST API	Java, Spring Boot, Custom Microservice architecture
Backend	MongoDB

Usage Dashboards

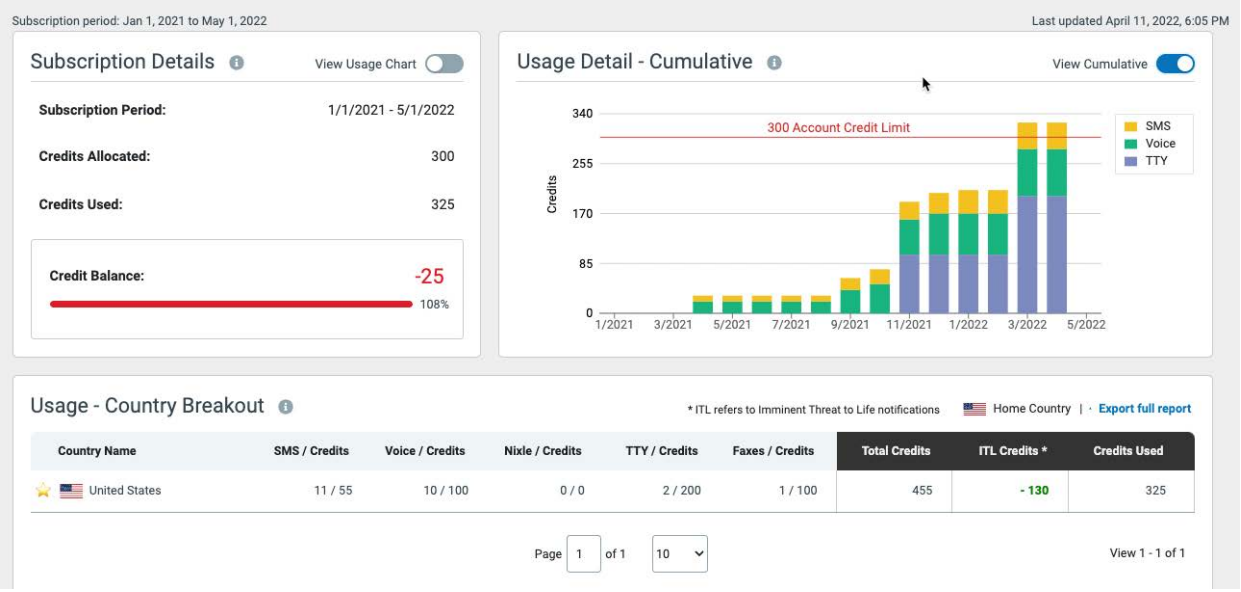

Figure 4 – Tiles designed to display relevant data in a clear and accessible way.

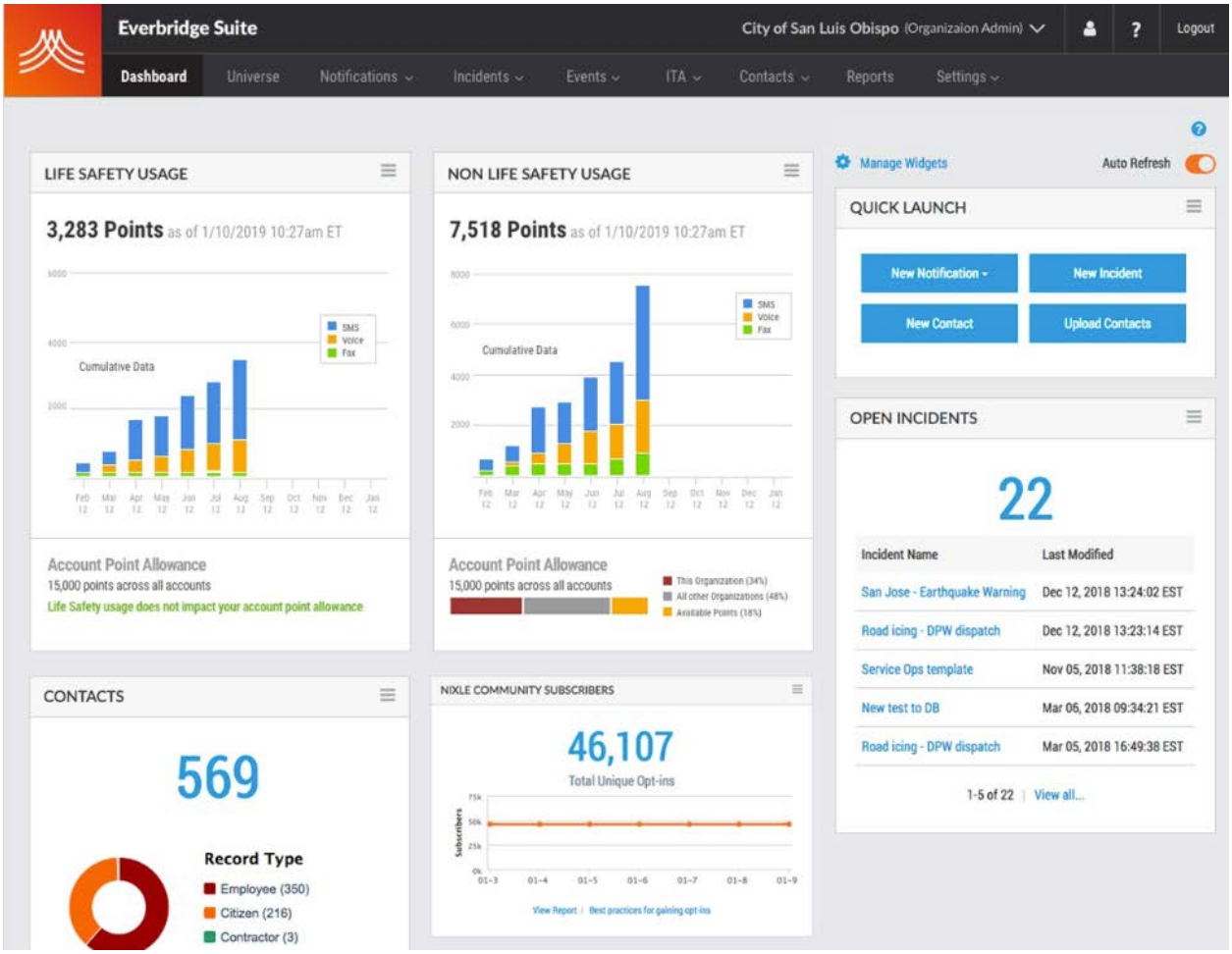

Figure 5 – Landing page of Usage Dashboards.

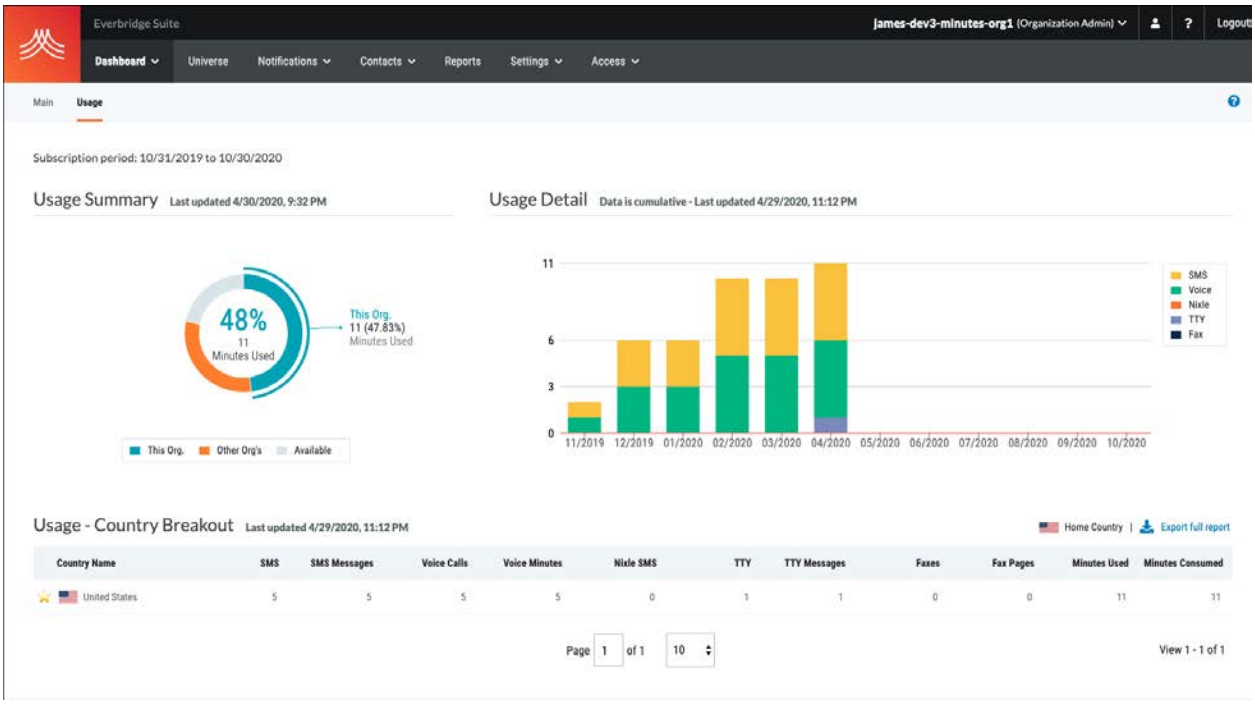

Figure 6 – Alternate view of usage summary and detail tiles with hover capability.

3. Resilience Insights

Overview

Resilience Insights is a customer-facing SaaS application that helps customers understand the impact of operational disruptions through Risk Analysis, Site Analysis, and Response Analytics.

Project Requirements

Design the application for UX and Usability as a well as continued feature development and maintenance.

Create Fullscreen mode to provide maximum screen real estate and provide an immersive experience.

Solution

Created a redesigned layout that helped improve Usability for better customer adoption and information retention.

Provided Fullscreen modes of all sections of Resilience Insights in accordance with customer feedback.

Technologies Used

Frontend	React, TypeScript, Ant Design, Zustand, React Query, Looker Embed SDK, React Router, Google Maps SDK, Styled Components, Lodash, and Webpack.
REST API	Java, Spring Boot, Looker API.
Backend	Snowflake, MongoDB, Looker, LookML.

Application Layout

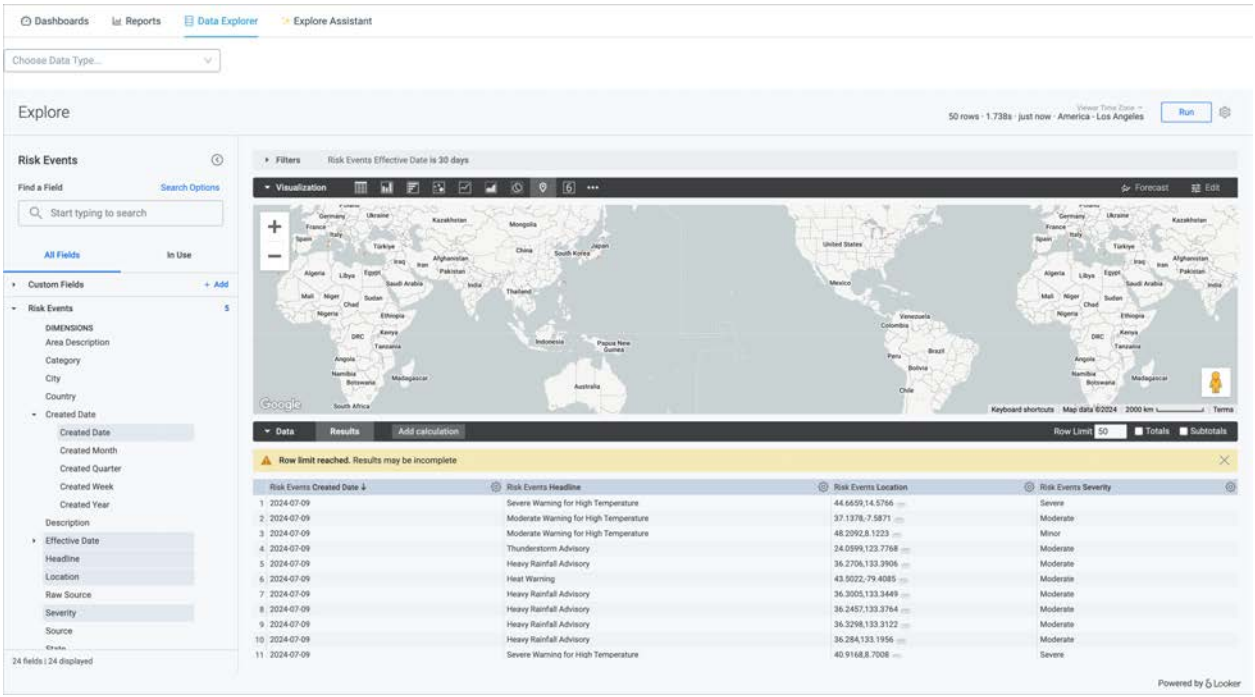

Figure 7 – Fullscreen map and tabular view allowing custom field selection.

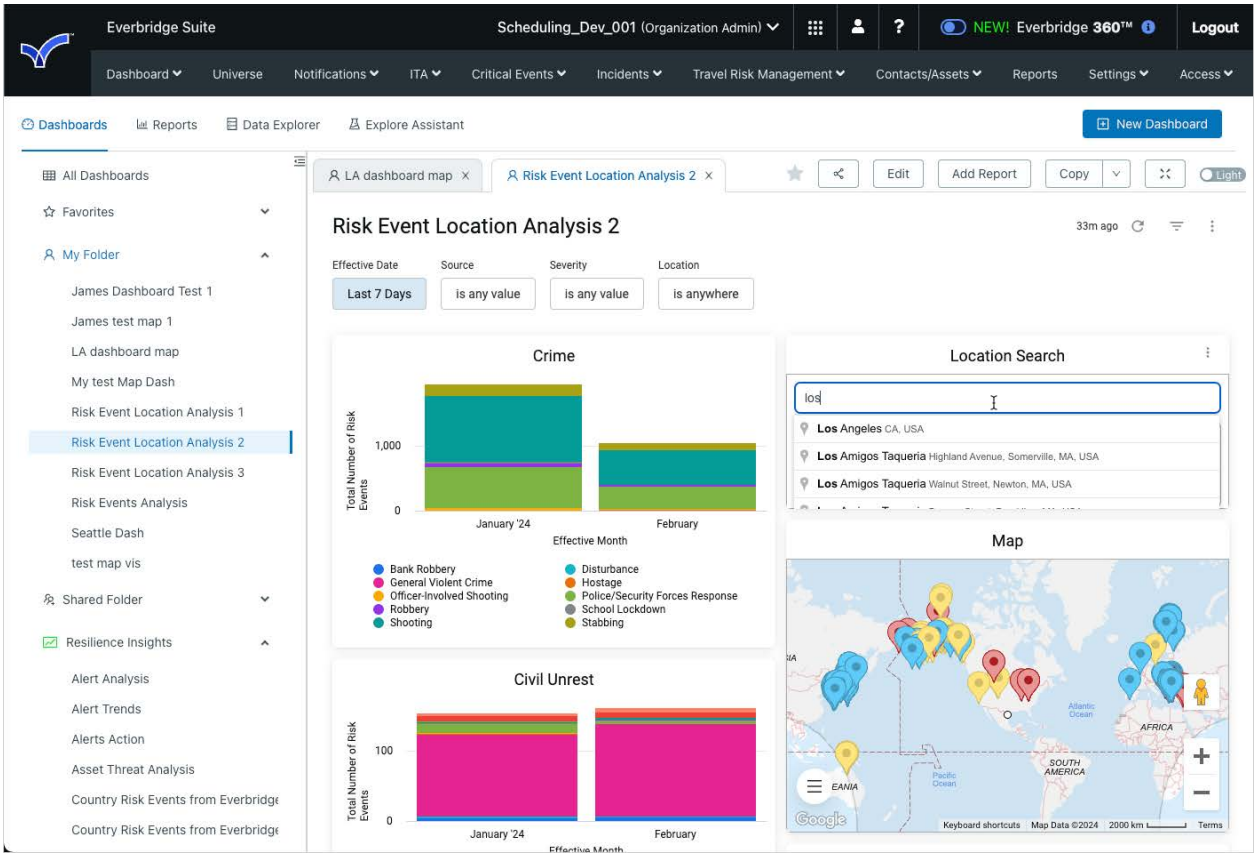

Figure 8 – Modular layout and embedding of BI visualization screens.

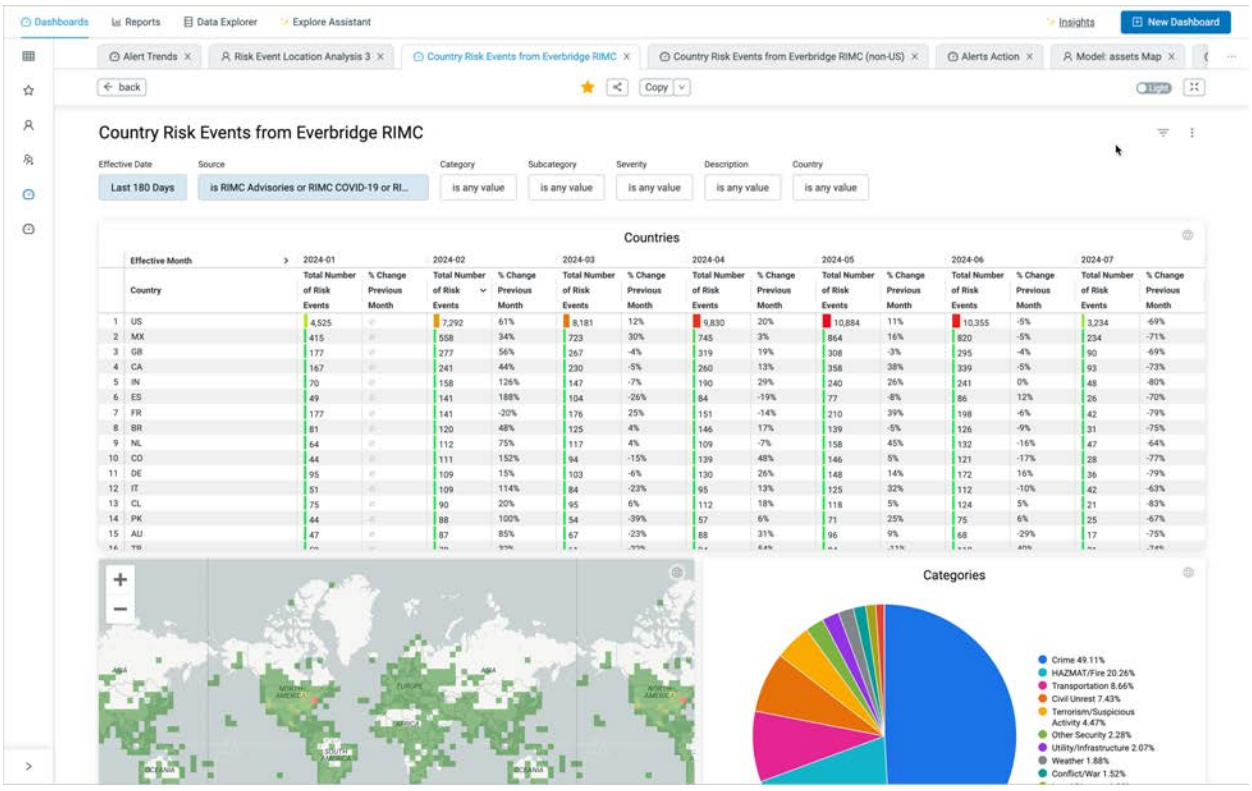

Figure 9 – Collapsable navigation, tabular view of dashboards, and embedded filter controls.

4. Internal Usage Dashboards

Overview

Internal Usage Dashboards allows Everbridge departments to view aggregated costs associated with customer activities.

Everbridge contracts often undercharged customers due to inability to correctly assess fixed costs.

Project Requirement

Create an internal analysis tool that provides authorized employees ability to query and calculate all costs associated with customer and account activities.

Design the system to be dynamic and configurable to allow ad-hoc queries and visualizations to be created, displayed, and shared.

Technologies Used

Frontend	React, TypeScript, Ant Design, React Router, Looker API, OneLogin SDK, Styled Components, Resizable library, Lodash, and Vite.
REST API	Python, FastAPI, Looker API, Java, Spring Boot.
Backend	Snowflake, MongoDB, Looker, LookML.

Application Screenshot

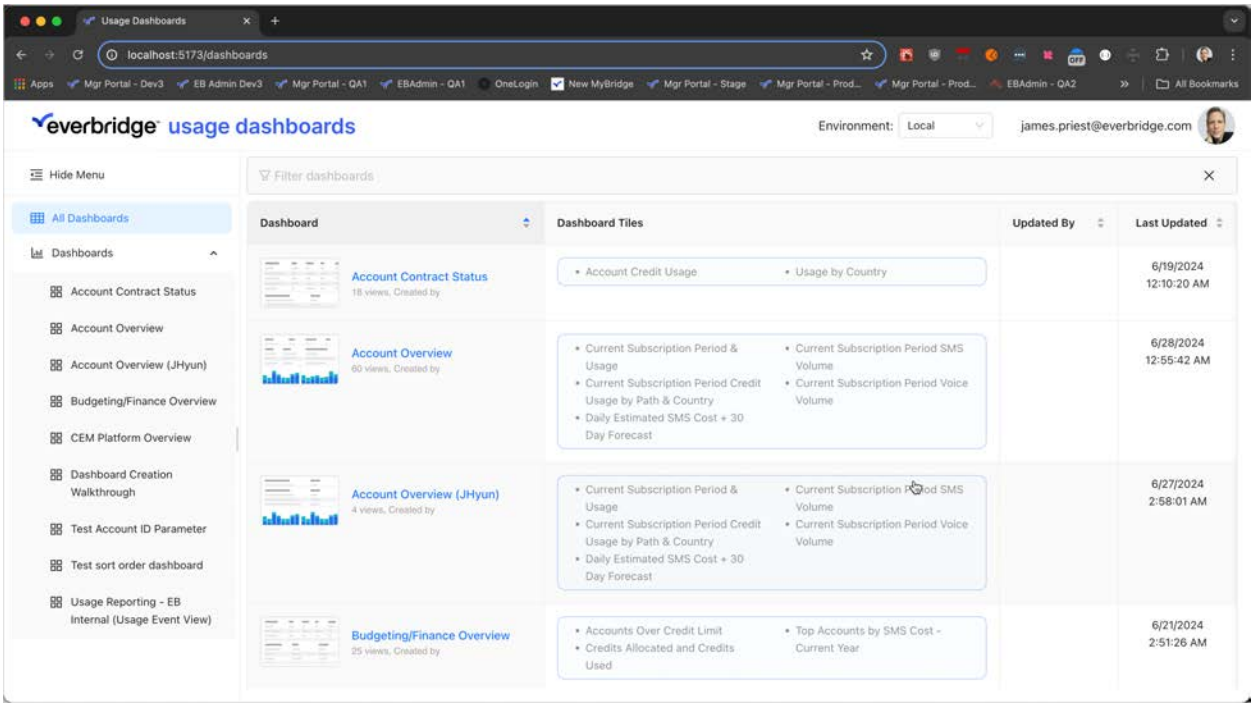

Figure 10 – Usage Dashboards Landing Page with series of pre-built dashboards.

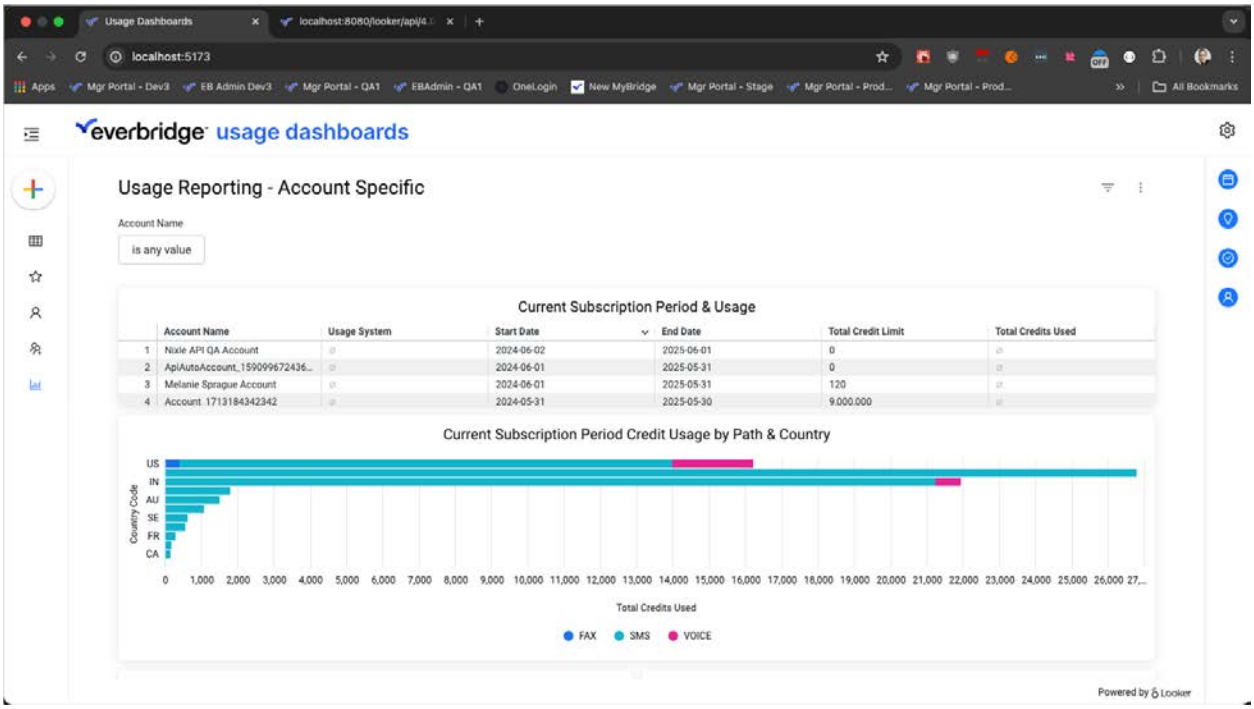

Figure 11 – Account Specific Dashboard measuring resource utilization.

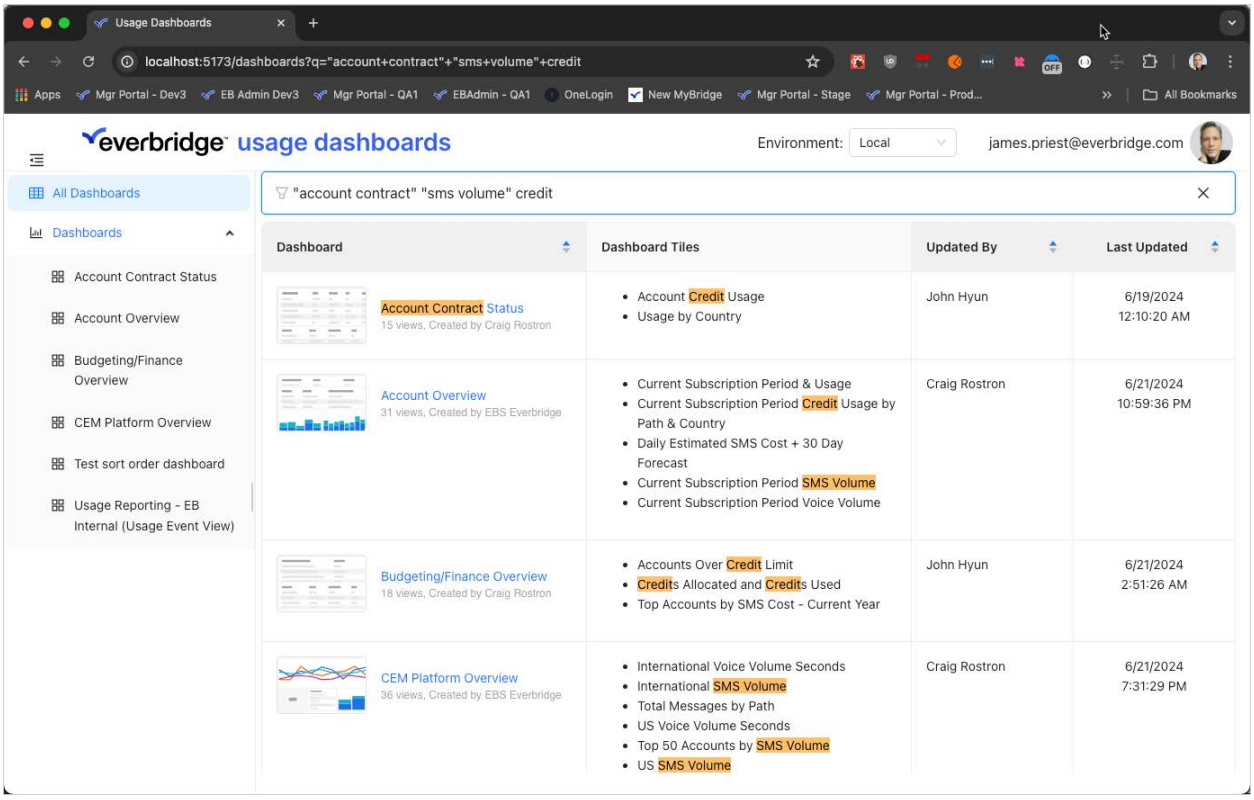

Figure 12 – Frontend state management with query string search params for link sharing.

5. POC Apps

Overview

These are a series of Proof-of-Concept apps designed to test various integration capabilities before building into our Everbridge Suite of applications.

Project Requirements

Create various API, OneLogin, and Looker integrations to demonstrate viability, feature capability, and data integration.

Technologies Used

Frontend	React, TypeScript, OneLogin SDK, Looker Embed SDK, React Router, Google Maps SDK, Styled Components, Lodash, and Vite.
REST API	Python, Fast API, Java, Spring Boot, Looker API.
Backend	Looker, LookML, Snowflake, MongoDB

Application POCs

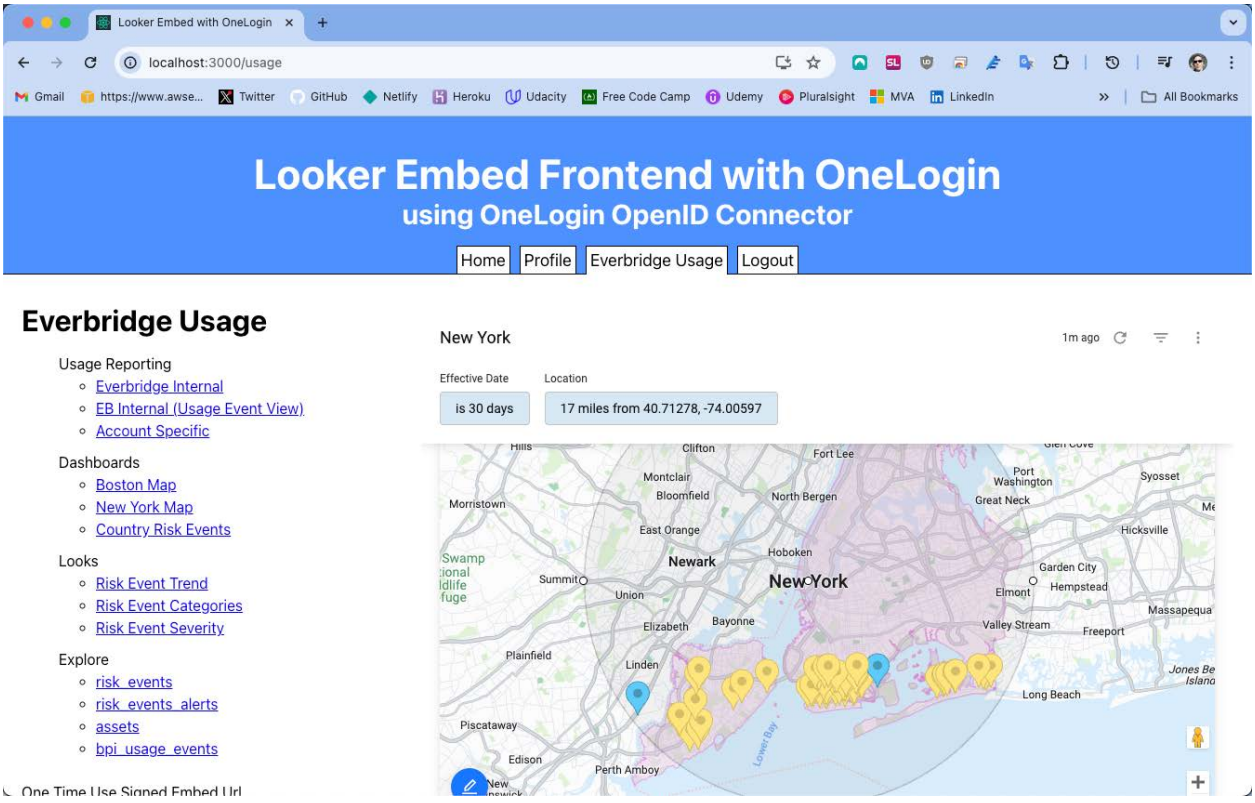

Figure 13 – Integration of Everbridge accounts, Looker Embedded content, and OneLogin authorization.

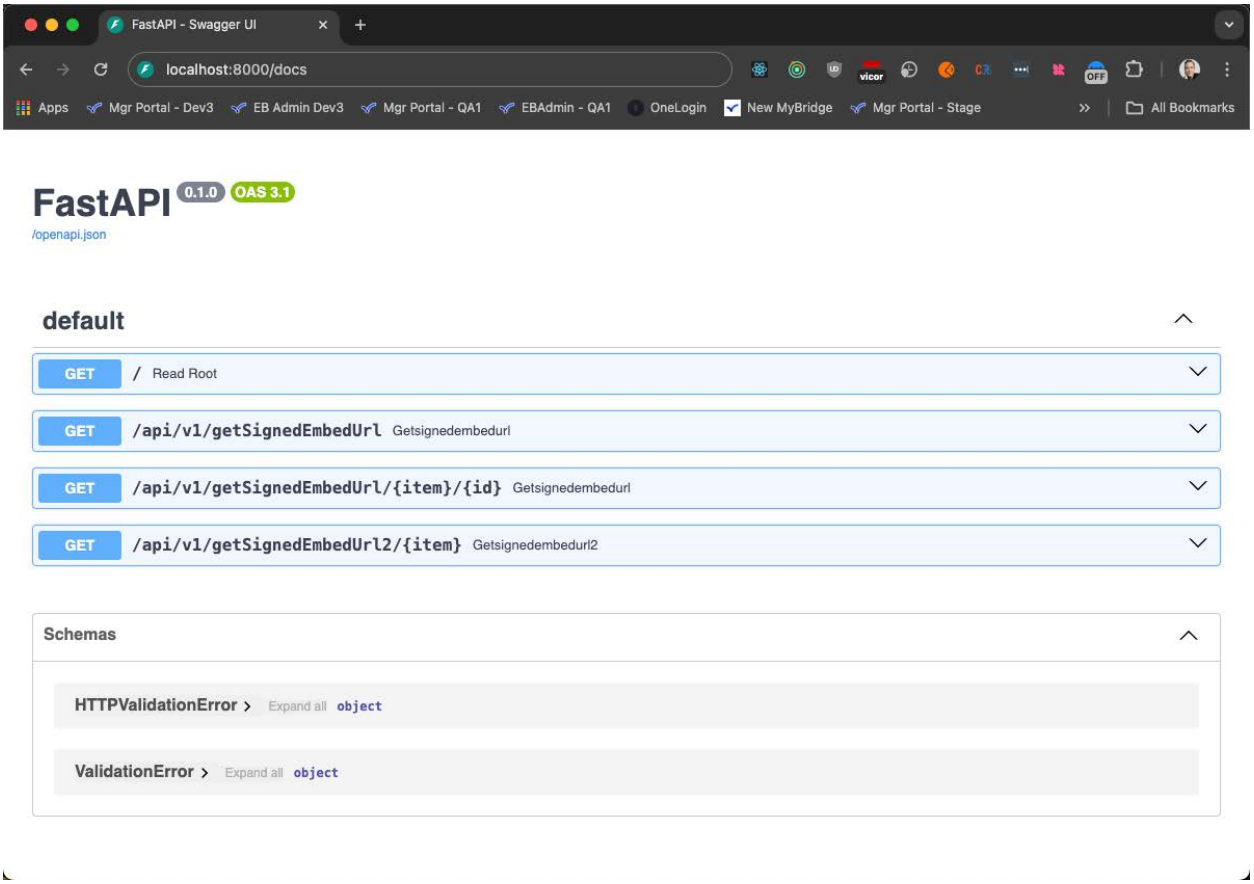

Figure 14 – Python FastAPI proof-of-concept for use with embedded frontend React integration.

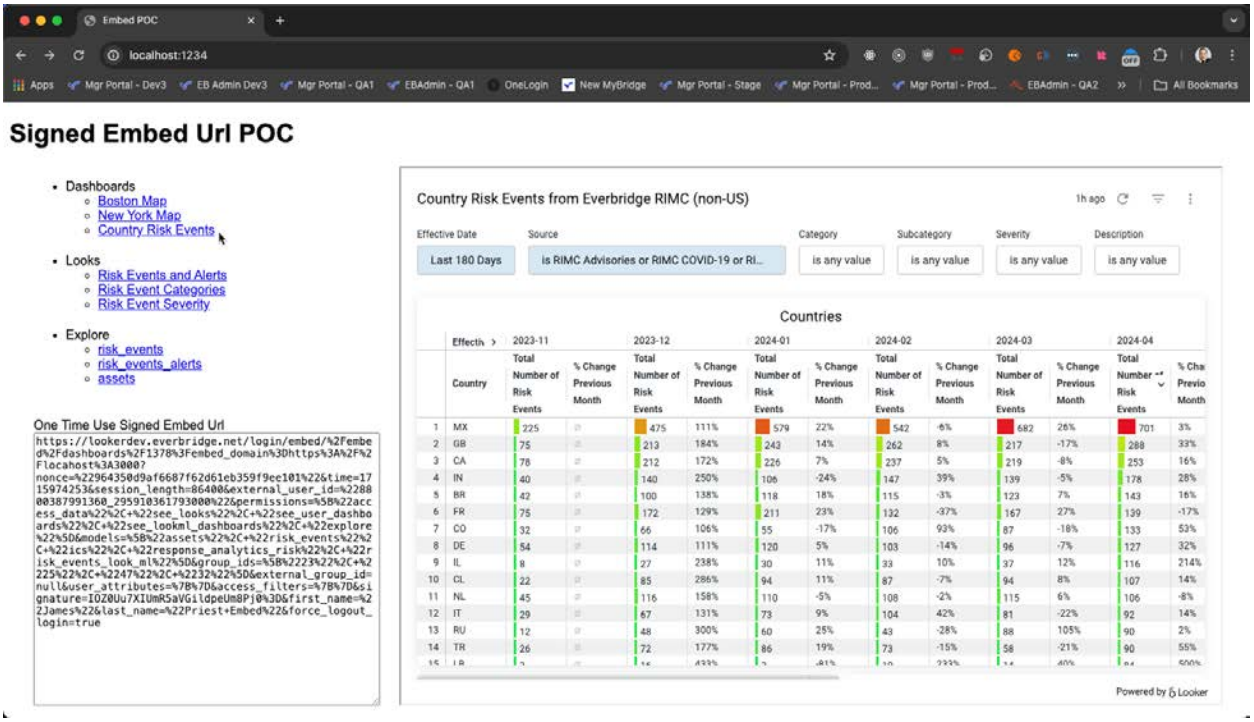

Figure 15 –Python backend API and signing app to provide single use embed URLs.