MICHIGAN STATE UNIVERSITY

Alpha Presentation

EV Charging Infrastructure Application

The Capstone Experience

Team GM

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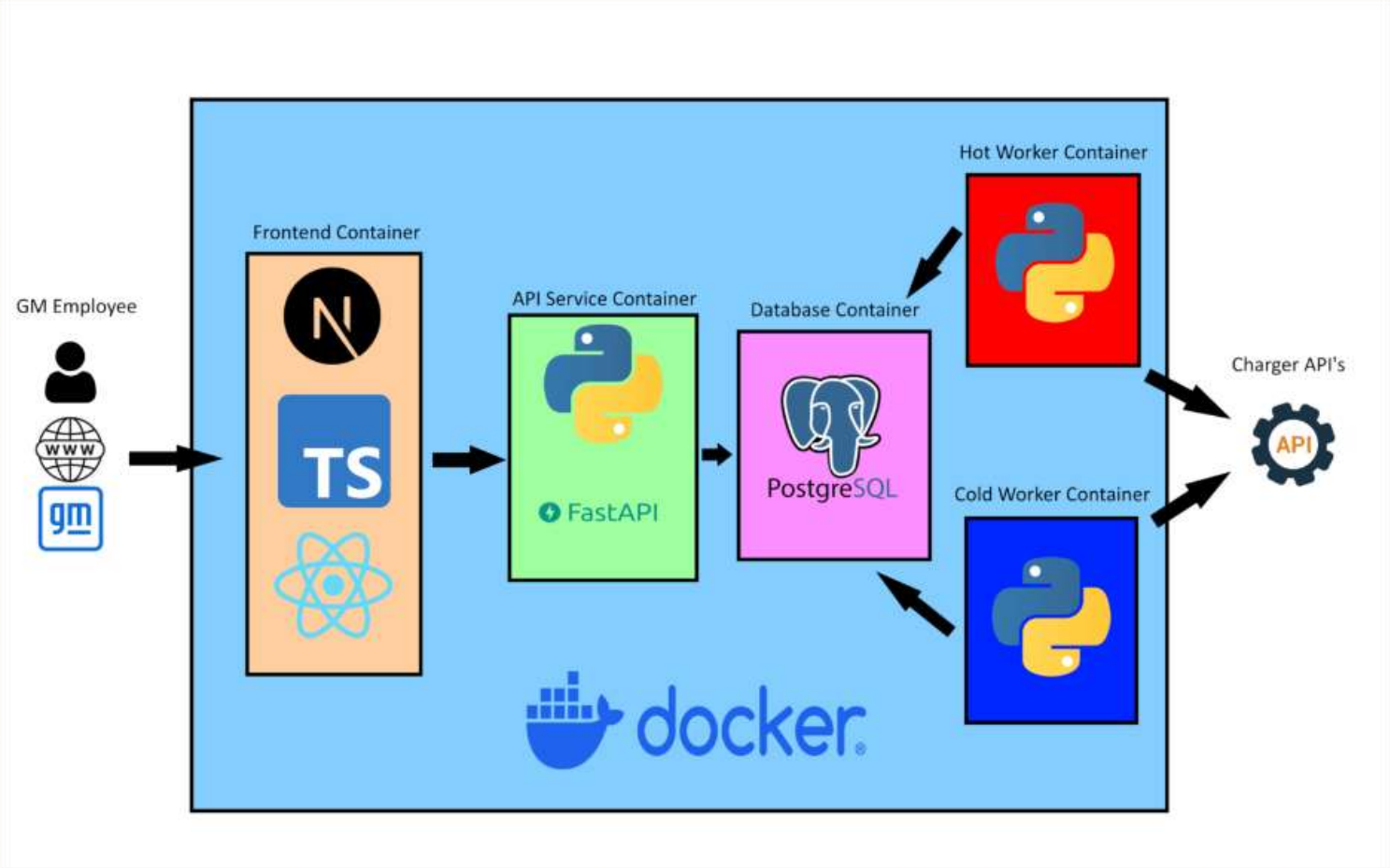
Spring 2026

From Students…
…to Professionals

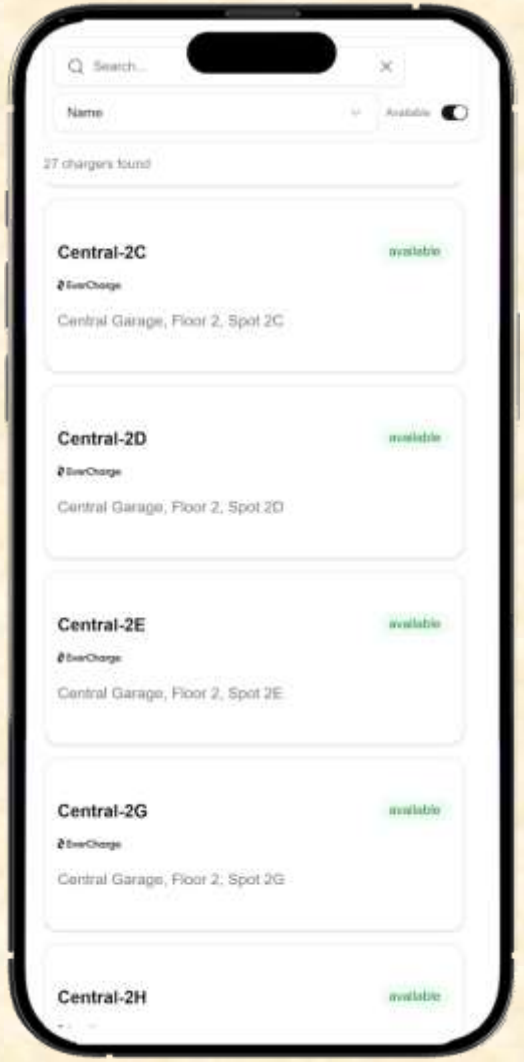
Project Overview

- Combines EV charging data into a single interactive dashboard
- Gain insights of EV chargers across all GM campuses
- Improves charging experience for GM employees
- Optimizes limited charging resources

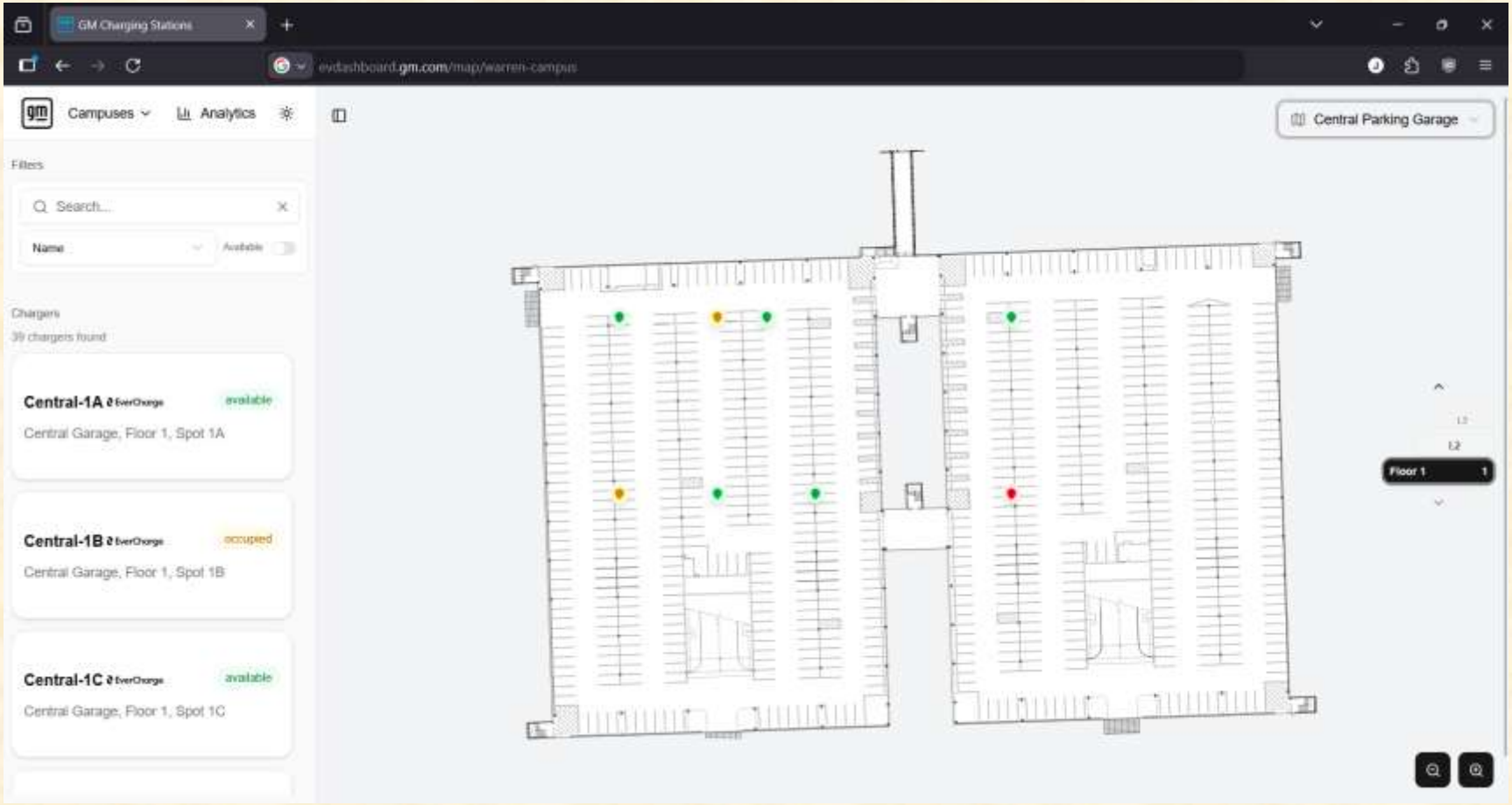
System Architecture



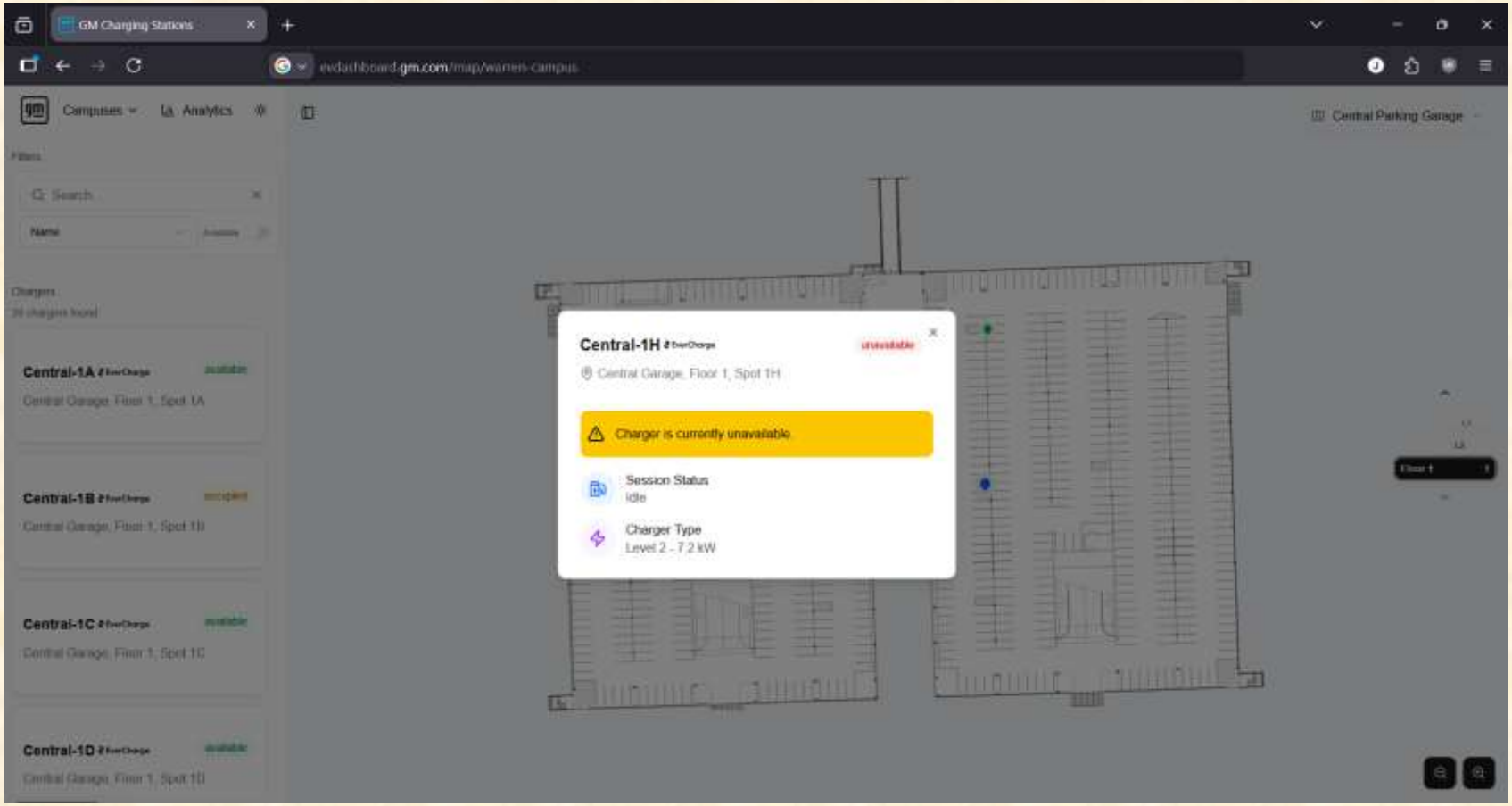
Map Mobile View



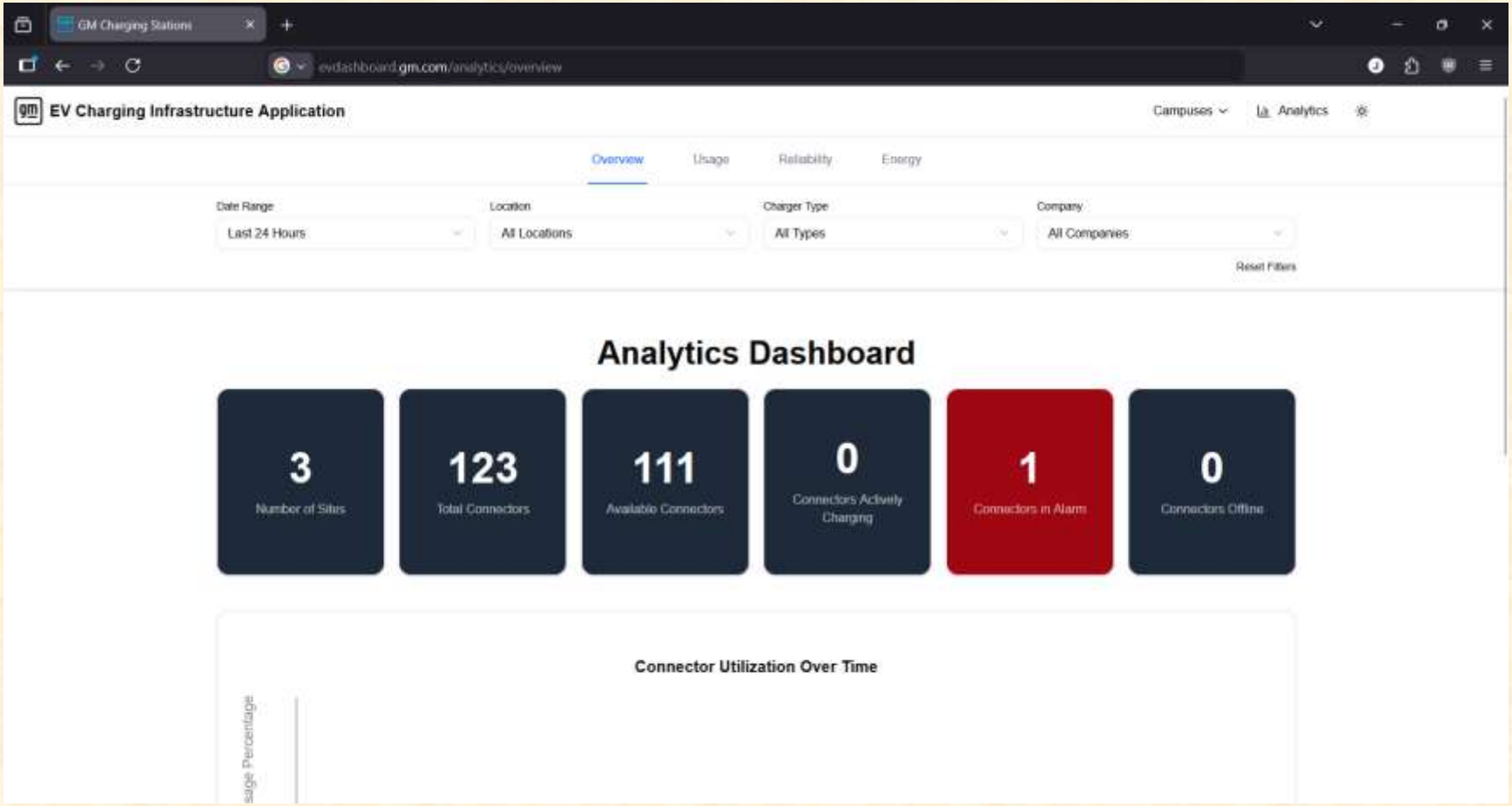
Map Page


GM Charging Stations
evdashboard.gm.com/map/warren-campus
Campuses
Analytics
Central Parking Garage
Filters
Search...
Name
Available
Chargers
39 chargers found
Central-1A
available
Central Garage, Floor 1, Spot 1A
Central-1B
occupied
Central Garage, Floor 1, Spot 1B
Central-1C
available
Central Garage, Floor 1, Spot 1C
Floor 1

Map Modal


GM Charging Stations
evdashboard.gm.com/map/warren-campus
Campuses
Analytics
Central Parking Garage
Central-1A
Central-1B
Central-1C
Central-1D
Central-1H
unavailable
Central Garage, Floor 1, Spot 1H
Charger is currently unavailable
Session Status
Idle
Charger Type
Level 2 - 7.2 kW

Analytics Page



What’s left to do?

- Add queueing system
- Integrate more charging stations
- Campus map
- Domain security
- Slack integration

Questions?

