From Students…
...to Professionals

MICHIGAN STATE UNIVERSITY

Alpha Presentation
Image Recognition Annotation and Validation Mobile Application
The Capstone Experience

Team Whirlpool
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Project Overview

• Train Yummly ingredient recognition software
  ▪ Internal crowdsourcing
  ▪ Real world examples
• Game – reliable annotations
• Admin Dashboard – configuration
• Image Recognition
  ▪ User Input
  ▪ TensorFlow Lite
• Android & iOS
System Architecture

- **Android**
- **iOS**
- **TensorFlow Lite**
- **Firebase**
- **Storage**
- **User Creation/Sign-In**
- **Authentication**
- **Image Storage**
- **Backend API**
- **Cloud Functions**
- **Cloud SQL**

The Capstone Experience

Team Whirlpool Project Plan Presentation

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What’s left to do?

- Finalize object detection implementation
- Complete Admin Dashboard functionality
  - Banner messages (notifications)
  - Whitelist
- Error checking/ bug fixes
- Call Yummly API in Annotation and Admin Dashboard
- Finalize game functionality
- Coordinate UI
- Completing stretch goal
  - TensorFlow Lite
Questions?