

**MICHIGAN STATE**  
**UNIVERSITY**

# Alpha Presentation

Sentiment & Emotional Analysis of Video  
Interviews

The Capstone Experience

Team Yello

Jenn Proos

Brian Wang

Leo Yao

Jonathon Zeitler

Quan Zhou

Department of Computer Science and Engineering  
Michigan State University

Spring 2018



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

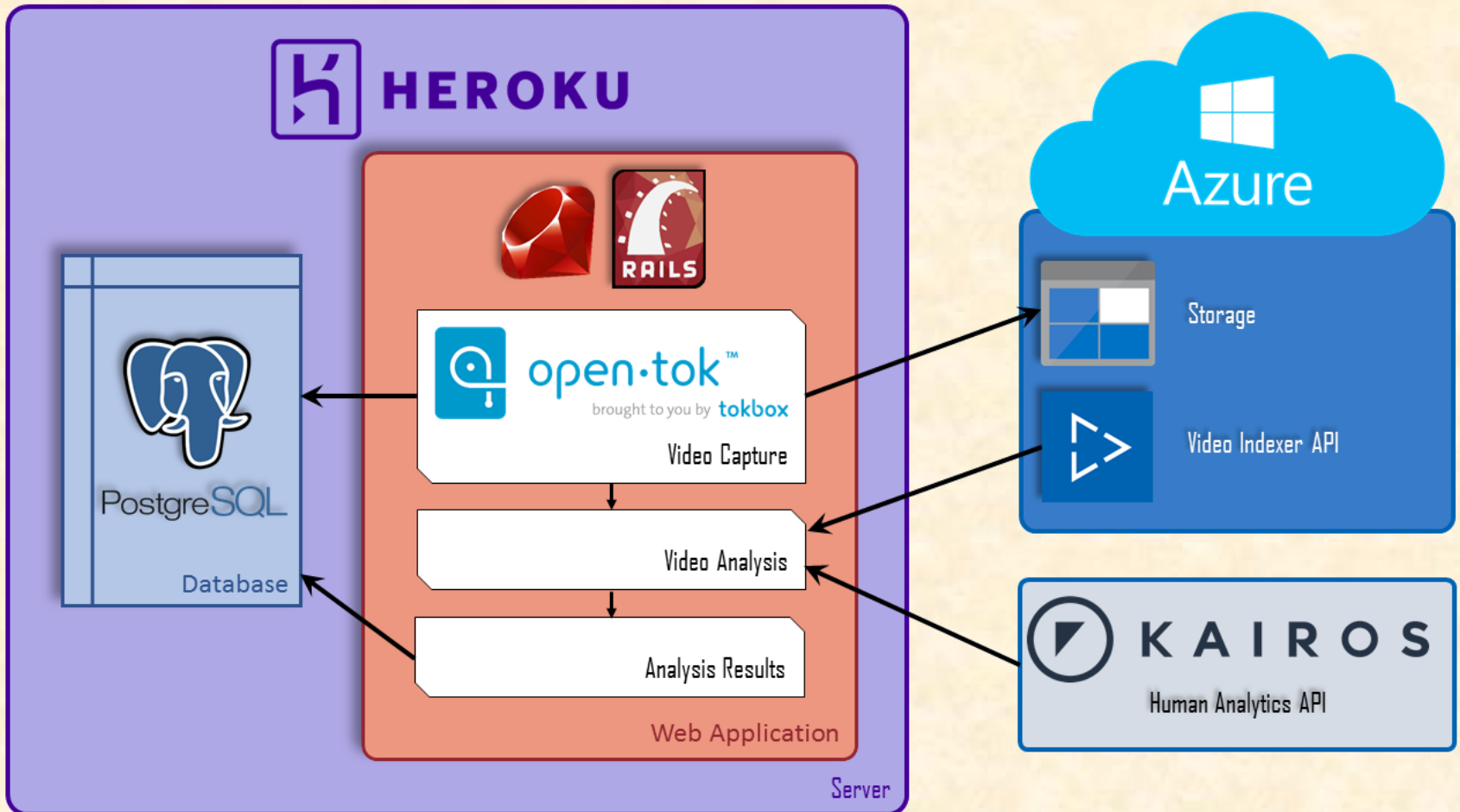
# Project Overview

---

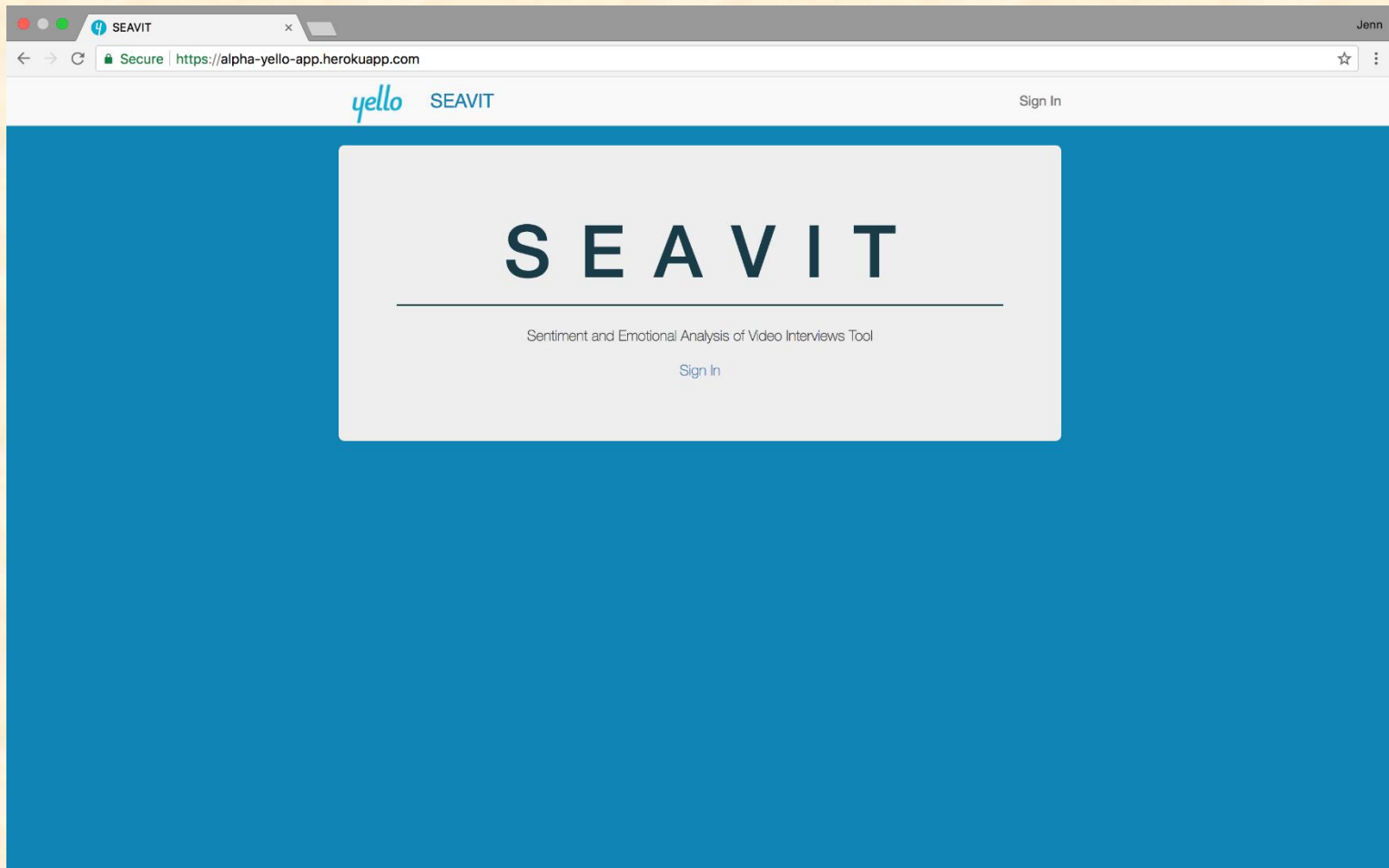
- Web App
  - Candidates can record and review answers to interview questions.
  - Staff can create, edit, and delete interviews.
  - Staff can view sentiment and emotion analysis results.
- Sentiment and Emotion Analysis
  - Sentiment analysis produces a floating point value between 0 (negative) and 1 (positive).
  - Emotion analysis produces a confidence score for each emotion



# System Architecture



# Login Screen



# Candidate Video Response

The screenshot shows a web browser window with the URL `https://alpha-yello-app.herokuapp.com/question_responses/69`. The page header includes the "yello SEAVIT" logo, the email "carl@gallagher.co [Candidate]", and a "Sign Out" link. The main content area has a blue background with the title "Facebook Web Designer" and "Question 2". The question text asks the candidate to describe a team conflict and their role. A video recording of a man with glasses is shown, with a "Record" button in the top left corner. Below the video are "Submit", "Previous", "Next", and "Finish" buttons. A "Back to Interviews" button is located at the bottom left of the content area.



# Managing Interviews

The screenshot shows a web browser window with the URL `https://alpha-yello-app.herokuapp.com/interviews`. The page title is "SEAVIT" and the user is logged in as "admin@yello.co [Admin]". The page features a blue header with the "yello SEAVIT" logo and navigation links for "Sign Out" and "Create New User". The main content area is titled "Interviews" and includes a "New Interview" button. Three interview listings are displayed, each with a title, author, description, and action buttons (Edit, Delete, Results).

**Interviews**

[New Interview](#)

**Data Analytics Scientist** [Edit](#) [Delete](#) [Results](#)

**Author: Bob (bob@recruiter.co)**

We are looking for a qualified data scientist to apply his or her expertise in quantitative analysis, data mining, and the presentation of data to see beyond the numbers and understand how our users interact with both our consumer and business products.

**Facebook Web Designer** [Edit](#) [Delete](#) [Results](#)

**Author: Bob (bob@recruiter.co)**

We are looking for an experienced developer to design and create web interfaces using Javascript, XHTML, and CSS.

**Google Software Engineer** [Edit](#) [Delete](#) [Results](#)

**Author: Susan (susan@recruiter.co)**

We are looking for an engineer with extensive experience in web development.



# Editing An Interview

The screenshot shows a web browser window with the URL `https://alpha-yello-app.herokuapp.com/interviews/2`. The page header includes the 'yello SEAVIT' logo, the user 'admin@yello.co [Admin]', and links for 'Sign Out' and 'Create New User'. The main content area is titled 'Senior Test Engineer' and includes a description: 'We are looking for a quality assurance engineer to build out a set of modern test automation suites for Ruby and Java applications.' To the right of the title are 'Edit' and 'Delete' buttons, and below them is a 'Results Overview' button. Below the description are three interview questions, each with a 'Results' button to its right:

- Question 1:** Think about an instance in which you came up with a project idea which was implemented primarily because of your efforts. What was it about? What was its outcome? What was your role?
- Question 2:** Describe a situation in which you met a major obstacle in order to complete a project. How did you deal with it? What steps did you take?
- Question 3:** Tell about an instance when you had to communicate a really bad piece of news to your supervisor or team members. How did you handle it? What was the outcome?

At the bottom, there is a section for candidate management:

- Invite Candidate:** A form with a 'Name:' label and a dropdown menu 'Select a Candidate', followed by a green 'Invite' button.
- Invited Candidates:** A table with columns 'Name', 'Email', and 'Completed?'. It contains one entry: 'candidate' with email 'candidate@yello.co' and 'Completed?' status 'No'. A red 'Uninvite' button is positioned to the left of the first row.



# What's left to do?

---

- Live interview functionality
- Send transcript to Azure Text Analytics
- Account activation through email
- Presenting analysis results in a helpful manner to recruitment teams
- Clean Up UI





# Questions?

---

?

?

?

?

?

?

?

?

?

