

Team Members

Kyle Goben - Team Lead and Client Interaction
Kiara Sta. Maria - Individual Component Design
Phuoc (Johnny) Nguyen - Database Lead
Omar Muhammetkulyyev - Testing Lead

sddec23-01@iastate.edu



Reiman Gardens popular fall celebration is back with even more spooky fun on two weekends!

See 1,000+ hand-carved Jack-O-Lanterns
Candy, Chemistry Experiments, and so much more!





Friday, October 13 & 20

6:00 - 9:00 p.m. - Jack-O-Lantern Sneak Peek

Be the first to see the Jack-O-Lanterns at their freshest. New this year, a cash bar will be available on Friday evenings only (21 yrs. and over). NO CANDY, SHOWS OR OTHER ENTERTAINMENT ON FRIDAY NIGHTS.

Saturday, October 14 & Sunday, October 15 Saturday, October 21 & Sunday, October 22

5:00 - 9:00 p.m. - Spirits in the Gardens Event Nights

• See the amazing Jack-O-Lanterns, Hollusion hologram projections (best after sunset), glowing orbs, and the Sycamore Falls lighted tower.

Event Preparation

Time Consuming

Lots of Data Entry; 1500+ Stencil Entries

4	A	В	С	D	Е	F	G							
1	#21 - TRADITIONAL PUMPKINS													
2	ID#	Title	Website	Printed	Cut	Traced	Carved							
3	21-1	Age of the Zombie Pumpkins	ZP	1	1	1	1							
4	21-2	Bat Cave	ZP	1	1	1	1							
5	21-3	Dawn of the ZP!	ZP	1	1	1	1							
6	21-4	Demi	ZP	1	1 1		1							
7	21-5	Face of the Minions	ZP	1	1	1	1							
8	21-6	Hammy	ZP	1	1	1	1							
9	21-7	Halloween Movie Jack	ZP	1	1	1	1							
10	21-8	Horton	ZP	1	1	1	1							
11	21-9	Heartless Jack O Lantern	Yarchuck	1										
12	21-10-A	Misfortune Teller	ZP	1	1	0.5	0.5							
13	21-10-B	Misfortune Teller (crystal ball)	ZP		1	0.5	0.5							
14	21-11	Jack the Knife	ZP	1	1	1	1							
15	21-12	Jasper	ZP	1	1	1	1							
16	21-13	Keaton	ZP	1	1	1	1							
17	21-14	Minecraft Pumpkin	ZP	1	1	1	1							
18	21-15	Morty	ZP	1	1	1	1							
19	21-16	Night of the ZP!	ZP	1	1	1	1							
20	21-17	Puking Pumpkin	ZP	1	1	1	1							
21	21-18	Monocle Top Hat	Stoneykins	1	1	1	1							
22	21-19	Revenge of the ZP!	ZP	1	1	1	1							
23	21-20	Sam's Jack O'Lantern	ZP	1	1	1	1							
24	21-21	Silas	ZP	1	1	1	1							
25	21-22	Sleepy Hollow Scarecrow Jack	ZP	1	1	1	0							
26	21-23	Shriveled Up	O&B	1	1	1	1							
27	21-24	Trick-or-Treat	O&B	1	1	1	1							
28	21-25	Lazy Loafer	O&B	1	1	1	1							
	< > "	#21-Traditional Pumpkins	#22-Video Games	Placement in	Garde	en Sha	aded Street							

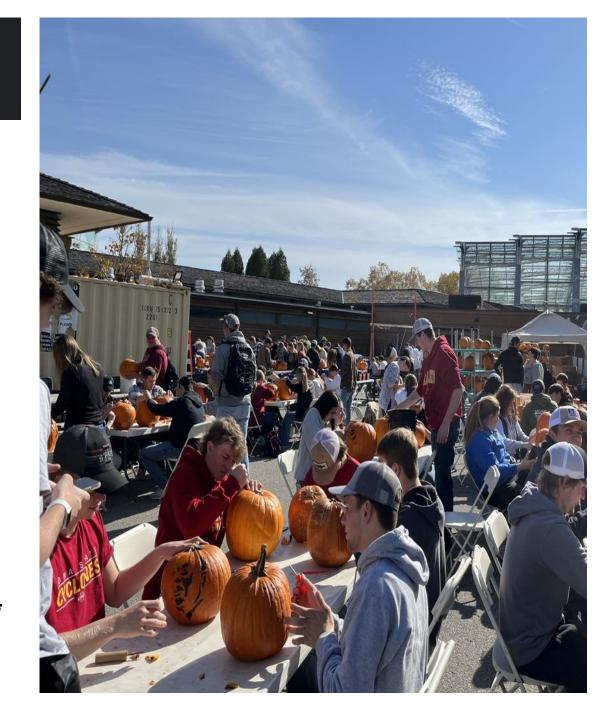
Problem Statement

Problem

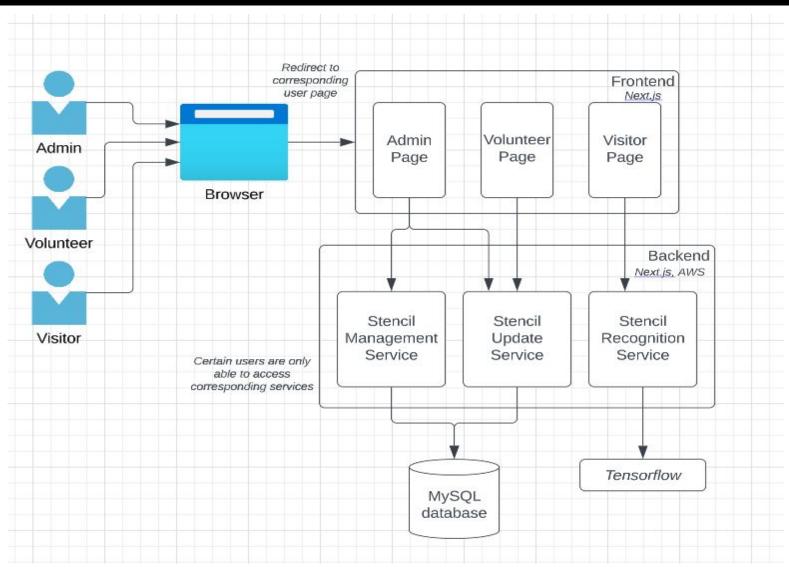
- Keeping track of pumpkins using a spreadsheet is inefficient
- Long queue of volunteers waiting line
- Visitors struggle to recognize the shape on pumpkin

Solution

- Web application that both the event organizers and volunteers can use to update their pumpkin statuses and more.
- Train an image recognition model that identifies the stencils from a pumpkin photo



Design Overview



Schedule

,																
		8/28	9/4	9/11	9/18	9/25	10/2	10/9	10/16	10/23	10/30	11/6	11/13	11/20	11/27	12/4
Tasks	Pre-492	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Setup development environments																
Create detailed screen sketches																
Create database schemas																
Setup CI/CD																
First sprint iteration (to use for event)																
Testing during the event																
Second sprint iteration (remaining fun	ctionality))														
Final testing																

Volunteer Event Dates

• Tracing

- Wednesday, October 4: 12 8 PM
- o Thursday, October 5: 12 8 PM
- o Friday, October 6: 12 8 PM
- o Sunday, October 8: 12 6 PM

• Carving

- o Wednesday, October 11 & 18: 12 8 PM
- Thursday, October 12 & 19: 12 8 PM
- Friday, October 13 & 20: 10 AM 2 PM

Tech Stack



React with Next.jsDevelopment Framework



Web application
Accessed through desktop and/or
mobile browser



Vercel CI/CD



SupabaseDatabase Management

Current Progress

• gourdguardian.vercel.app

Technical Challenges

- Ensuring that the web application improves the workflow of the event.
- Getting application to handle individual volunteers with both weeks selected
- Being intuitive to use with no prior instructions





Frightful and Delightful,

it's a big thank you!

