Projects for USF CS Students 2022
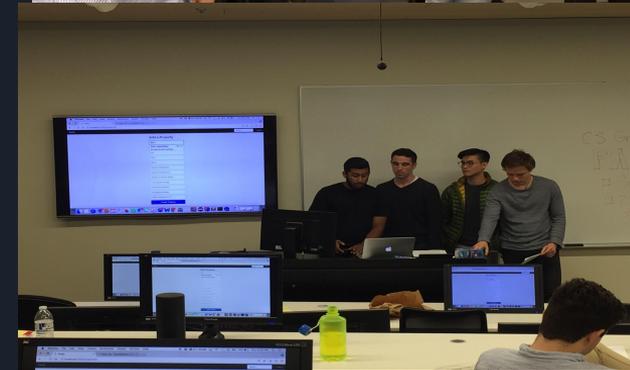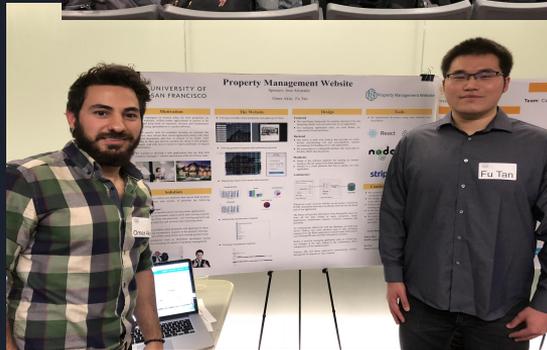
By Jose Alvarado

Introduction

Jose Alvarado

2015: M.S. in Computer Science from USF

- Business Owner
- Engineering Manager where I manage the following projects
  - Swift iOS App
  - Node.js API on AWS
  - React Web App
- Founded Giftata (iOS App)
- Founded Zipkick (iOS/Web App)
- Founded ThisWon (iOS App)
  - Co-founded with another USF student
  - Successful exit
- Founded SF Dev Shop
  - Freelance projects on the side for other companies

Student Stats

- Feb 2017 - Present
- Worked with 121 students
- 34 Projects

Students I worked with recently

	A	B	C
1	Project Name +	Year	Name
2	Friend Lotto	2021	Nora Cheng
3			Shulin Li
4			Yiqi (YiChi) Wei
5	List of Lists	2021	Saige Madden
6			Gurjot Kaur
7			Yordanos Solomon
8			Cara Ingram
9		Business	Jenna Radwan
10	TV/Movie Recommendation	2021	Maxwell Bruckhaus
11			Keita Nonaka
12			Berk Burak Tasdemir
13	City Log Platform (Web)	2021	Shan Jiang (Shawn)
14			Haoyu Yan
15			Muzhi Zhang
16	Dating Platform (Web)	2021	Li Liu
17			Jiaoao (Diana) Yu
18	Travel Plan (iOS)	2021	Yamac Karakus
19			Andrew Molis
20			Ryan Tjakrakartadinata
21	Fitness Workout Log	2021	Mark Codd
22			Andrew Dao
23			Bharath Gajjala
24			Theodora Nguyen
25		Business	Michelle Feinberg

	A	B	C
1	Project Name	Year	Name
2	Meme App	2020	Bradley Genao
3			Jake Ols
4			Ned Azar
5			Alex Kowalczuk
6	Pocket Realor App	2020	Jerry Chen
7			John Fox
8			Junting Cai
9	Donation Platform	2020	Danielle Hu
10			Na Lu
11			Roger Yu
12	Walking 4 Health App	2020	Iris Li
13			Nuo Cheng
14			Yiqi Wei
15	Chicken Tinder App	2020	Yuan Qian
16			Zhenzhen Wang
17			Lev Weinstein
18	Sustainability App	2020	Alexander Wojcik
19			Esha Chennubhotla
20			Sameer Isaq
21	Emergency Card App	2020	Ornelle Fonkoua Mambe
22			Ravi Patel
23			Sepid Ebrahimi
24	Boozy App	2020	Chelsea Kaye Punzalan
25			Hayden Miller
26			Isaiah Jenkins

Projects

- Reservation and Party Booking App
- Decentralized Storage App
- Food Tracker App
- Food Ordering App

Reservation and Party Booking App (Web)

Project Goal

- Allow users to buy tickets and book reservations for a variety of different events
- Companies should be able to create their party packages and have a public page where customers can make purchases
  - Difficulty: Some packages are very complex
- Customers should be able to select a package, select an available date, and customize it however they want before checking out
  - Reservations only require half the amount to be paid up front

Key Features

- Create profiles for companies and customers
- Companies
  - Create and edit packages
  - View purchased packages
  - Edit packages that only paid half up front
- Customers
  - Purchase packages
  - View history
- Accept payments
  - Allow businesses to withdraw funds

Event Booking

SUPER Party 10 players

Party for 10 players
Two (2) non-private Laser Tag games
Pizza, drinks, 8-arcade tokens/player, Party Room, and Party Host!

- **$260.00** up to **10** player
- **$25.00** per additional player
- Max **20** players

✎ Pricing   ⊘ Reserve Now

SUPER Plus 20+plyrs

Party for 20 players
Two (2) non-private Laser Tag games
Pizza, drinks, 8-arcade tokens/player, Party Room, and Party Host!

- **$470.00** up to **20** player
- **$23.00** per additional player
- Max **37** players

✎ Pricing   ⊘ Reserve Now

SUPER Mega 30+ players

Party for 30+ players
Two (2) PRIVATE Laser Tag games
Pizza, drinks, 8-arcade tokens/player, Party Room, and Party Host!

- **$640.00** up to **30** player
- **$21.00** per additional player
- Max **37** players

✎ Pricing   ⊘ Reserve Now

ULTIMATE Party 10 players

Party for 10 players
Three (3) non-private Laser Tag games
Pizza, drinks, 16-arcade tokens/player, Party Room, and Party Host!

- **$360.00** up to **10** player
- **$35.00** per additional player
- Max **20** players

✎ Pricing   ⊘ Reserve Now

ULTIMATE Plus 20+plyrs

Party for 20 players
Three (3) non-private Laser Tag games

ULTIMATE Mega 30+plyrs

Party for 30+ players
Three (3) PRIVATE Laser Tag games

Lasertag 2 Game Reservation

Two (2) Laser Tag Games for 1 Player
20 minute break in between games

Lasertag 3 Game Reservation

Three (3) Laser Tag Games for 1 Player
20 minute break in between games

> Description
> Date and Time
> Package Items
> Event Extras
> Guests Of Honor

SUPER Plus 20+plyrs

Description — Date and Time — Package Items — Event Extras — Guests Of Honor

① **Select Event Date**

② Select Time Range

June 2022

SU	MO	TU	WE	TH	FR	SA
29	30	31	1	2	**3**	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

☐ Date Unavailable
🟧 Today's Date
🟩 Selected Date

08:00 AM ⛅ 12:00 PM
Morning: 8am-11:59am

12:00 PM ☀ 05:00 PM
Afternoon: noon-4:59pm

05:00 PM 🌙 10:00 PM
Evening: 5-10pm

③ Select Event Start Time

06:00 PM

Total Summary

Event
SUPER Plus 20+plyrs

Players
20

Est. Taxes
$6.70

Est. Final Price
$476.70

Deposit Required
$238.35

SUPER Plus 20+plyrs

Description — Date and Time — Package Items — Event Extras — Guests Of Honor

Time to complete your order: **04:35**

Base package

		Base Price
SUPER Plus 20 players		$460.00

Additional extras

Party Package Pizza

○ No Pizza - $5 tokens instead	$0.00	◉ PIZZA - Select Toppings	$0.00

Pizza Template

Party Package Pizza

○ No Pizza - $5 tokens instead	$0.00	◉ PIZZA - Select Toppings	$0.00

Pizza Template

Party Package Pizza

◉ No Pizza - $5 tokens instead	$0.00	○ PIZZA - Select Toppings	$0.00

Party Package Pizza

◉ No Pizza - $5 tokens instead	$0.00	○ PIZZA - Select Toppings	$0.00

2 Liter Choice Table

Total Summary

Event
SUPER Plus 20+plyrs

Players
20

Event Date
6/3/2022

06:00 PM-08:00 PM

Activity
• 06:00 PM - 08:00 PM
Room 1
• 06:20 PM - 06:40 PM
Game Reservation
• 06:00 PM - 08:00 PM
Room 2
• 07:20 PM - 07:40 PM
Game Reservation

Est. Taxes
$6.89

Est. Final Price
$470.89

Deposit Required
$235.44

Party Package Pizza

○ No Pizza - $5 tokens instead	$0.00	◉ PIZZA - Select Toppings	$0.00

Pizza Template

☑ Plain Cheese Pizza	$0.00	☐ Pepperoni Topping	$2.00
☐ Sausage Topping	$2.00	☐ Chicken Topping	$2.00
☐ Bacon Topping	$2.00	☐ Ham Topping	$2.00
☐ Meatball Topping	$2.00	☐ Mushroom Topping	$2.00
☐ Onion Topping	$2.00	☑ Tomato Topping	$2.00
☐ Green Pepper Topping	$2.00	☐ Black Olive Topping	$2.00
☑ Spinach Topping	$2.00	☐ Pineapple Topping	$2.00
☐ Ricotta Topping	$2.00	☐ Basil Pesto Topping	$2.00
☐ Premium-Meat Classic	$6.00	☐ Premium - Veggie	$6.00
☐ Premium - Supreme	$6.00	☐ Premium - Hawaiian Pizza	$6.00
☐ Premium - Margherita Pizza	$6.00	☐ Pizza Notes	$0.00
☐ Premium-Meat Classic	$6.00	☐ Premium - Veggie	$6.00
☐ Premium - Supreme	$6.00	☐ Premium - Hawaiian Pizza	$6.00
☐ Premium - Margherita Pizza	$6.00	☐ Pizza Notes	$0.00

Decentralized Storage (Web or Mobile)

Project Goal

- Create a 2 sided marketplace where owners will be able to register their driveways, garages, and empty rooms and have others users pay to store their items
- Basically, this is AirBnb but for storage
- Owners will be able to create as many listings as they want
- Renters will be able to pay and reserve the spot

Key Features

- Create profiles for owners and renters
- Owners
    - Create and edit listings
    - View a dashboard of listings
- Customers
    - Search listings
    - Rent listings
    - View rent history
    - Message owners and ask them questions
- Accept customer payments
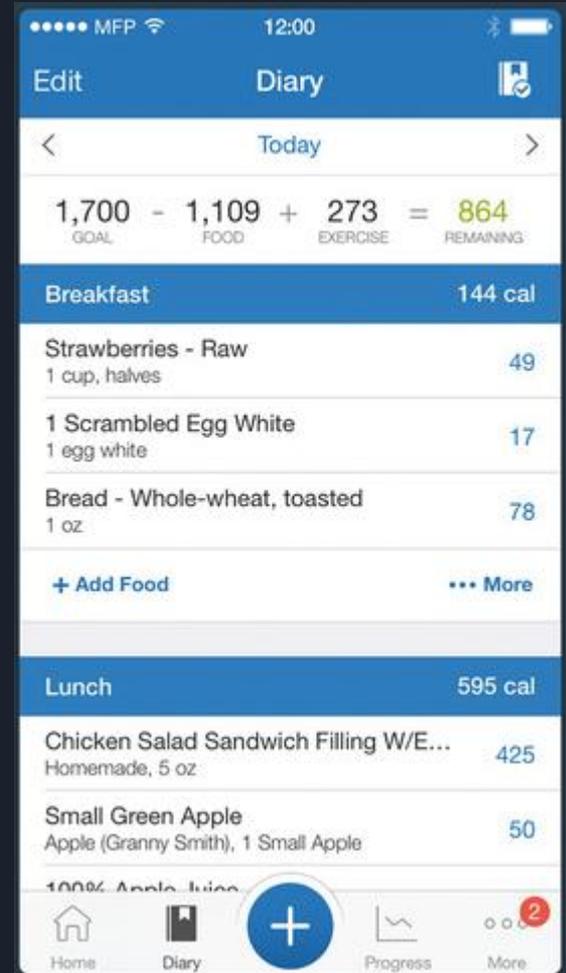   - Allow businesses to withdraw funds

Food Tracker (Web or Mobile)

Project Goal

- Allow users to track their weight and what they've eaten per day and view their progress
- The MVP will be similar to MyFitnessPals Diary and Progress features
  - Users will be able to select from a predefined list of items or they can add their own
  - Users should be able to view their calories/macros/vitamins per day
  - Give recommendations for goals

Key Features:

- Account creation
- Track Food + Supplements (extra scan barcode)
- Create meal plans to follow which can be modified

Food Ordering Platform (Web)

Project Goal

- Allow users to be able to order and coordinate meals with other users across the US
  - Company events
  - Group of friends
  - Food influencers
- MVP: we will start off with only being able to order pizza
- Third party API integration is CRITICAL
  - https://developers.google.com/actions/food-ordering

Key Features

- Account creation + invitations
  - Anonymous addresses
  - Time zones
  - Define allergies / dislikes / diets
- Coordinates purchases across different time zones
- Purchase food
  - On demand
  - Credit
    - Influencer can accept the food or convert it into credit for them to purchase their own food
- View purchase history

Schedule/Goals

- Week 1: Intro & Walkthrough
    a. Tutorials
    b. Access to GitHub
- Week 2: Backend Tutorials: Node.js
- Week 3: Frontend Tutorials: React.js or Swift
- Week 4 - 12: Project Tasks
    a. Bi-weekly tasks will be provided based on the number of students in each team and their experience
    b. Weekly standups
- Week 13-15:
    a. Wrapping up key features
    b. Poster presentations
    c. Working on extra features if your team is ahead of schedule

Preferred Tech

- Mobile Developer
    ○ Swift or Kotlin
    ○ React Native or Flutter
- Front End Developer
    ○ React or Vue
    ○ Material-UI, Ant Design
- Backend End Developer
    ○ AWS
    ○ Node.js with Express
    ○ Postgres Database
- Jamstack SAAS (Advanced)
    ○ Chakra UI
    ○ Next.js
    ○ NestJS
    ○ Prisma (Node.js and TypeScript ORM)
    ○ NextAuth.js (Authentication for Next.js)
    ○ Tailwind CSS

Why should you pick one of my projects?

You will learn enough to apply for a junior software engineering position

1. iOS/Android Software Engineer
   a. National Avg. Salary: $127,000
2. **Node.js** Developer
   a. National Avg. Salary: $110,000
3. **React.js** Developer
   a. National Avg. Salary: $120,000
4. Real world experience
5. Opportunity to give feedback on the product and roadmap
6. Sprint workshops
7. Resume Review
8. LinkedIn Recommendation
9. Technical Interview Problems + Mock Interviews

10. No prior experience needed
    a. You will learn the fundamentals as you go
    b. Must have a desire to learn
    c. 1-1 help to debug your code
11. Mentorship beyond USF
    a. Grad School Recommendations
    b. Job references
12. Resources
    a. Tutorials & courses
    b. Resume
    c. LinkedIn
13. Connect with Alumni students through our Slack channel
14. Job Referrals
15. Public recognition when we launch!

Questions?

Feel free to reach out!

Jose Alvarado <josealvarado111@gmail.com>

Projects: https://www.sfdevshop.com/2022-summer.html

LinkedIn: https://www.linkedin.com/in/josealvarado111/

LinkTree: https://linktr.ee/imjosealvarado