



Projects for USF CS Students 2022

By Jose Alvarado

Introduction



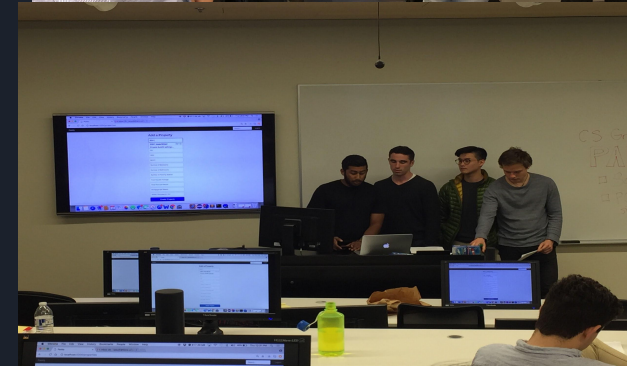
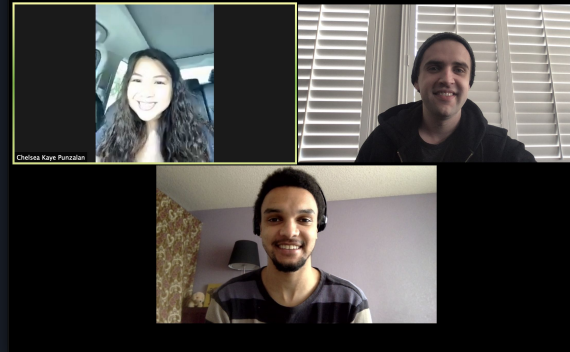
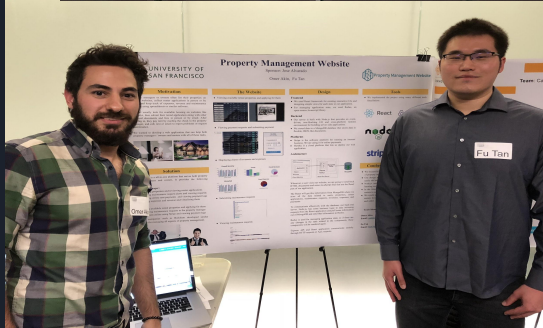
Jose Alvarado

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)
 - Successful exit
- 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 129 students
- 37 Projects



Students I worked with recently

	A	B	C
1	Project Name	Year	Name
2	Food Tracking	2022	Leonardo Framba
3			Alex Zeng-Yang
4	Reservation and Party Booking	2022	Shelger Zhang
5			Chufeng Qiao
6			Shumin Zhang
7	Food Ordering	2022	Jingke Chen
8			Yifan Meng
9			Katie Cox
10	Habit Tracking	2022	Arnau Vila Manes
11			Edward Rees
12			Kate Walker
13			Sophia Ladwiniec

	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



Projects

- Decentralized Storage App
- Profit & Loss Statement Web App
- Business Marketplace Web App
- Bingo Card Creator App



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

Decentralized Storage (Web or Mobile)



Self storage



Car storage



RV storage



Boat storage



Trailer storage



Business inventory

Storage near San Francisco, California

Sort by Recommended

Self storage

Size

Price

Distance

All filters

Looking for commercial storage space?

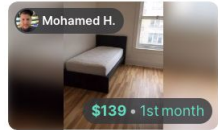
Contact sales →



4 x 3 Self Storage Unit
San Francisco, CA



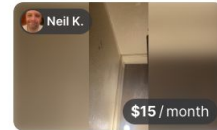
11 x 7 Self Storage Unit
San Francisco, CA



33 x 10 Bedroom
San Francisco, CA



7 x 2 Self Storage Unit
San Francisco, CA



3 x 2 Other
San Francisco, CA



23 x 21 Basement
San Francisco, CA



Profit & Loss Statements App Web App

Project Goal

- **Personal finance app that syncs with your bank and generates a profit & loss statement**
- P & Ls are typically used for business but the goal of this project is to be flexible enough to do it for both
- View data by category and generate graphs to track progress over time
- NOTE: This requires approval from third party libraries. If we don't get approval, then we can mock the API

Key Features

- Sign up/Login
- Integrate with bank API
- Display spreadsheet
- Aggregate data automatically
- Create custom categories
- Group custom categories
- Filter/Sort Data
- Display changes over time

Profit & Loss Statements App Web App

	A	B	C	D	E	F
1	[Company Name]		Profit and Loss Report			
2	Address: 123 Street Avenue, Cityville, State, 12333					
3						
4	Date Created:	Date Issued:				
5	11 Jan, 2020	11 Jan, 2020				
6						
7						
8	Profit and Loss Report					
9	Revenue		Year 1	Year 2	Year 3	
10	Sales		\$78,000.00	\$78,000.00	\$78,000.00	
11	Less: Sales Return		\$3,000.00	\$3,000.00	\$3,000.00	
12	Less: Discounts and Allowances		\$1,000.00	\$1,000.00	\$1,000.00	
13	Net Sales		\$74,000.00	\$74,000.00	\$74,000.00	
14	Cost of Goods Sold					
15	Materials		\$8,000.00	\$8,000.00	\$8,000.00	
16	Labor		\$9,000.00	\$9,000.00	\$9,000.00	
17	Overhead		\$2,000.00	\$2,000.00	\$2,000.00	
18	Total Cost of Goods Sold		\$19,000.00	\$19,000.00	\$19,000.00	
19	Gross Profit		\$55,000.00	\$55,000.00	\$55,000.00	
20	Operating Expenses					
21	Wages		\$10,000.00	\$10,000.00	\$10,000.00	
22	Advertising		\$500.00	\$500.00	\$500.00	
23	Repairs & Maintenance		\$100.00	\$100.00	\$100.00	
24	Travel		\$50.00	\$50.00	\$50.00	
25	Rent/Lease		\$5,000.00	\$5,000.00	\$5,000.00	
26	Delivery/Freight Expense		\$1,000.00	\$1,000.00	\$1,000.00	
27	Utilities/Telephone Expenses		\$1,000.00	\$1,000.00	\$1,000.00	
28	Insurance		\$500.00	\$500.00	\$500.00	
29	Mileage		\$1,500.00	\$1,500.00	\$1,500.00	
30	Office Supplies		\$1,000.00	\$1,000.00	\$1,000.00	
31	Depreciation		\$8,000.00	\$8,000.00	\$8,000.00	
32	Interest		\$2,000.00	\$2,000.00	\$2,000.00	
33	Other Expenses		\$100.00	\$100.00	\$100.00	
34	Total Operating Expenses		\$30,750.00	\$30,750.00	\$30,750.00	
35	Operating Profit (Loss)		\$24,250.00	\$24,250.00	\$24,250.00	
36	<i>Add Other Income</i>					
37	Interest Income		\$2,000.00	\$2,000.00	\$2,000.00	
38	Other Income		\$1,000.00	\$1,000.00	\$1,000.00	
39	Profit (Loss) Before Taxes		\$27,250.00	\$27,250.00	\$27,250.00	
40	Less: Tax Expense		\$4,000.00	\$4,000.00	\$4,000.00	
41	Net Profit (Loss)		\$23,250.00	\$23,250.00	\$23,250.00	

Personal Financial Statement Template	
Name	-
Home Address	-
Contact Details	-
Financial Information as of..	-
Income Statement for the Year Ended...	
Annual Income	Amount
Salary	\$0.00
Part-time Income	\$0.00
Net Investment Income	\$0.00
Interest Income	\$0.00
Dividend Income	\$0.00
Real Estate Income	\$0.00
Other Investment Income	\$0.00
Bonus	\$0.00
Capital Gains	\$0.00
Other Income	\$0.00
Total Income	\$0.00
Annual Expenditures	
Groceries	\$0.00
Services	\$0.00
Apparel expenses	\$0.00
Entertainment	\$0.00
Grooming expenses	\$0.00
Personal Insurance	\$0.00
Fuel expenses	\$0.00
Conveyance	\$0.00
Home Rent	\$0.00
Insurance	\$0.00
School Loan Payment	\$0.00
Car EMI	\$0.00
Retail Payment	\$0.00
Credit Card Payment	\$0.00
Total Expenses	\$0.00
Net Income / Loss	\$0.00




Business Marketplace Web App

Project Goal

- **This is a platform to buy and sell businesses**
- Brokers or business owners can post their businesses for sell
 - Title, city, state, asking price, revenue, cash flow, description
- Buyers will be able to search by text, filter using any of the following [type of business, location, absentee, price min, price max], and sort using any of the following [asking price, revenue, cash flow]
- Authenticated users will be able to contact seller
- NOTE: The transaction is not done directly on the platform, we are only connecting the parties

Business Marketplace Web App

Oregon Businesses For Sale Showing 667 results sorted by featured [Local Info](#)



Sushi Korean Restaurant


Medford, OR

Sushi and Korean cuisine with beer and wine liquor license. Dine in, Patio seating and high volume of take out sales, Established more than 10 years downtown prime location. Real estate NOT included. Restaurant...

\$1,500,000
Cash Flow: \$621,975

[Contact](#)

♡



Garden Center & Farm Store together with the Real Property

Oregon

This top-quality garden center and farm store is in the path of progress in Oregon's Silicone Forest. Developed to serve the demand for quality, sustainability and organic...

\$5,900,000
REAL ESTATE INCLUDED

[Contact](#)

♡




Bingo Card Creator App

Project Goal

- **Allow users to generate bingo cards and play online with a group of friends**
- Create standard bingo card size of 5x5
 - Populate it with words or numbers
- **Share a link to invite others**
 - Users can play anonymously or with an account
- Show play history
- Monthly subscription service

Bingo Card Creator App

Ice Breaker Bingo

B	I	N	G	O
Is left handed	Has slept overnight on a bench	Has bungee jumped	Has been sky diving	Has a child in college
Knows how to do a run salutation	Does not like sports	Has been published	Was a college athlete	Plays the violin
Has read all 7 Harry Potter books	Doesn't like chocolate		Is fluent in another language	Has met a celebrity
Rides a motorcycle	Has lived overseas	Listens to Elvis	Can dance the salsa	Was a hippie
Gave birth in the past year	Grows herbs	Has milked a cow	Will not kill a fly	Has a child in preschool

Bingo Cards With Pictures

B	I	N	G	O
				
				
				
				
				

Traditional Numbers Bingo

B	I	N	G	O
4	20	45	58	72
3	16	33	57	69
6	24		54	73
9	26	41	52	67
14	28	35	59	74

Phonics And Sight Words Bingo

B	I	N	G	O
on	that	please	do	with
ate	into	good	ride	under
pretty	get		well	they
are	but	out	went	too
eat	want	soon	was	new



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. Mobile Software Engineer
 - a. National Avg. Salary: \$127,000
2. Node.js (API) Software Engineer
 - a. National Avg. Salary: \$110,000
3. React.js (Web) Software Engineer
 - 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!

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Projects: <https://www.sfdevshop.com/2022-fall-graduate.html>

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

LinkTree: <https://linktr.ee/imjosealvarado>